## Master List Summary of Review IRIS Uncertainty Factors with a Unit or Null Value Support for EPA's Integrated Risk Information System July 31, 2012

	Reference Dose (RfD)		
Line No.	Substance	Last sig rev	
1	Acenaphthene	1990	
2	Acenaphthylene	1991	
3	Acephate	1989	
4	Acetaldehyde	1909	
5	Acetochlor	1993	
6	Acetone	2003	
7	Acetonitrile	1999	
8	Acetophenone	1991	
9	Acetyl chloride	1991	
10	Acifluorfen, sodium	1987	
11	Acrolein	2003	
12	Acrylamide	2003	
13	Acrylic acid	1994	
14	Acrylonitrile	1991	
15	Adiponitrile	1991	
16	Alachlor	1993	
<u></u>	Alar	1988	
18	Aldicarb	1993	
19	Aldicarb sulfone	1993	
20	Aldrin	1991	
21	Ally	1988	
22	Allyl alcohol	1988	
23	Allyl chloride	1991	
24	Aluminum phosphide	1987	
25	Amdro	1987	
26	Ametryn	1987	
27	4-Aminopyridine	1989	
28	Amitraz	1988	
29	Ammonia	1991	
30	Ammonium acetate	1991	
31	Ammonium methacrylate	1991	
32	Ammonium sulfamate	1989	
33	Aniline	1990	
34	ortho-Anisidine	1991	
35	Anthracene	1991	
36	Antimony	1991	
37	Antimony trioxide	1995	
38	Apollo	1991	

39	Aramite	1991
40	Aroclor 1016	1993
41	Aroclor 1248	1994
42	Aroclor 1254	1994
43	Arsenic, inorganic	1995
44	Arsine	1994
45	Asbestos	1988
46	Assure	1991
47	Asulam	1988
48	Atrazine	1993
49	Avermectin B1	1989
50	Azobenzene	1991
51	Barium and Compounds	2005
52	Barium cyanide	1991
53	Baygon	1987
54	Bayleton	1988
55	Baythroid	1988
	Benefin	
56		1987
57	Benomyl	1987
58	Bentazon (Basagran)	1998
59	Benz[a]anthracene	1994
60	Benzaldehyde	1988
61	Benzene	2003
62	Benzidine	1991
63	Benzo[a]pyrene (BaP)	1992
64	Benzo[b]fluoranthene	1994
65	Benzo[g,h,i]perylene	1990
66	Benzo[k]fluoranthene	1994
67	Benzoic acid	1991
68	Benzotrichloride	1990
69	Benzyl chloride	1992
70	Beryllium and compounds	1998
71	Bidrin	1987
72	Biphenthrin	1988
73	1,1-Biphenyl	1991
74	Bis(2-chloro-1-methylethyl) ether	1989
75	Bis(2-chloroethoxy)methane	1991
76	Bis(chloroethyl)ether (BCEE)	1991
77	Bis(chloromethyl)ether (BCME)	1991
78	Bisphenol A.	1988
79	Boron and Compounds	2004
80	Bromate	2001
81	Brominated dibenzofurans	1990
82	Bromobenzene (subchronic)	2009
83	Bromobenzene (subchilonic)	2009
84	Bromochloromethane	1991
85	Bromodichloromethane	1993

86	p-Bromodiphenyl ether	1990
87	Bromoform	1993
88	Bromomethane	1992
89	Bromotrichloromethane	1991
90	Bromoxynil	1988
91	Bromoxynil octanoate	1988
92	1,3-Butadiene	2002
93	n-Butanol	1991
94	Butyl benzyl phthalate	1989
95	Butylate	1994
96	t-Butylchloride	1990
97	Butylphthalyl butylglycolate (BPBG)	1987
98	Cacodylic acid	1992
99	Cadmium (water)	1991
100	Cadmium (food)	1991
101	Calcium cyanide	2010
102	Caprolactam	1994
103	Captafol	1987
104	Captan	1989
105	Carbaryl	1991
106	Carbofuran	1987
107	Carbon disulfide	1995
108	Carbon tetrachloride	2010
109	Carbonyl sulfide	1991
110	Carbosulfan	1987
111	Carboxin	1987
112	Cerium Oxide and Cerium Compounds	2009
113	Chloral hydrate	2000
114	Chloramben	1987
115	Chlordane (Technical)	1998
116	Chlordecone (Kepone)	2009
117	Chlorimuron-ethyl	1989
118	Chlorine	1994
119	Chlorine cyanide	1987
120	Chlorine dioxide	2000
121	Chlorite (sodium salt)	2000
122	1-Chloro-1,1-difluoroethane	1995
123	2-Chloroacetophenone	1991
124	p-Chloroaniline	1988
125	Chlorobenzene	1990
126	Chlorobenzilate	1989
127	1-Chlorobutane	1990
128	2-Chlorobutane	1990
129	Chlorocyclopentadiene	1990
130	Chlorodifluoromethane	1993
131	Chloroform	2001
132	Chloromethyl methyl ether (CMME)	1987

beta-Chloronaphthalene	1990
2-Chlorophenol	1988
p-Chlorophenyl methyl sulfide	1993
p-Chlorophenyl methyl sulfone	1993
p-Chlorophenyl methyl sulfoxide	1993
Chloroprene	2010
Chlorothalonil	1988
o-Chlorotoluene	1990
Chlorpropham	1988
Chlorpyrifos	1987
Chlorsulfuron	1987
Chromium(III), insoluble salts	1988
Chromium(VI) - oral	1998
Chromium(VI) - inhalation/acid mists and aerosols	1998
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pibromocniorometriane	1992
	2-Chlorophenol p-Chlorophenyl methyl sulfide p-Chlorophenyl methyl sulfone p-Chlorophenyl methyl sulfoxide Chloroprene Chlorothalonil o-Chlorotoluene Chlorpropham Chlorpyrifos Chlorsulfuron Chromium(III), insoluble salts

180	p,p'-Dibromodiphenyl ether	1990
181	1,2-Dibromoethane	2004
182	Dibutyl phthalate	1990
183	Dicamba	1988
184	Dichloroacetic acid	2003
185	1,2-Dichlorobenzene	1990
186	1,3-Dichlorobenzene	1990
187	1,4-Dichlorobenzene	1994
188	3,3'-Dichlorobenzidine	1991
189	Dichlorodifluoromethane	1988
190	p,p'-Dichlorodiphenyl dichloroethane (DDD)	1988
191	p,p'-Dichlorodiphenyldichloroethylene (DDE)	1988
192	p,p'-Dichlorodiphenyltrichloroethane (DDT)	1988
193	1,1-Dichloroethane	1990
194	1,2-Dichloroethane	1991
195	cis-1,2-Dichloroethylene	2010
196	trans-1,2-Dichloroethylene	2010
197	1,1-Dichloroethylene (1,1-DCE)	2002
198	Dichloromethane	2011
199	2,4-Dichlorophenol	1988
200	4-(2,4-Dichlorophenoxy)butyric acid (2,4-DB)	1987
201	2,4-Dichlorophenoxyacetic acid (2,4-D)	1987
202	1,2-Dichloropropane	1991
203	2,3-Dichloropropanol	1990
204	1,3-Dichloropropene	2000
205	Dichlorvos	1994
206	Dicofol	1992
207	Dieldrin	1991
208	Diesel engine exhaust	2003
209	Diethyl phthalate	1988
210	Diethyl sulfate	1991
211	Diethyl-p-nitrophenylphosphate	1992
212	Diethylene glycol dinitrate (DEGDN)	1993
213	Difenzoquat	1988
214	Diflubenzuron	1987
215	1,1-Difluoroethane	1994
216	Diisopropyl methylphosphonate (DIMP)	1989
217	Dimethipin Dimethip attacks at a second seco	1988
218	Dimethoate	1988
219	Dimethyl phthalate	1990
220	Dimethyl sulfate	1992
221	Dimethyl terephthalate (DMT)	1987
222	Dimethylamine  N. N. Dissatta de silica	1991
223	N-N-Dimethylaniline	1987
224	3,3-Dimethylbenzidine	1991
225	N,N-Dimethylformamide	1990

227	2,6-Dimethylphenol	1988
228	3,4-Dimethylphenol	1988
229	4,6-Dinitro-o-cyclohexyl phenol	1988
230	m-Dinitrobenzene	1991
231	o-Dinitrobenzene	1992
232	2,4-Dinitrophenol	1991
233	2,4-Dinitrotoluene	1992
234	2,4-/2,6-Dinitrotoluene mixture	1990
235	Dinoseb	1989
236	1,4-Dioxane	2010
237	Diphenamid	1987
238	Diphenylamine	1987
239	1,2-Diphenylhydrazine	1991
240	Diquat	1987
241	Disulfoton	1987
242	1,4-Dithiane	1993
243	Diuron	1988
244	Dodine	1987
245	Endosulfan	1994
246	Endothall	1987
247	Endrin	1989
248	Epichlorohydrin	1992
249	1,2-Epoxybutane (EBU)	1992
250	Ethephon	1988
251	Ethion	1989
252	2-Ethoxyethanol	1991
253	Ethyl acetate	1987
254	Ethyl carbamate	1992
255	Ethyl chloride	1991
256	S-Ethyl dipropylthiocarbamate (EPTC)	1987
257	Ethyl ether	1990
258	Ethyl p-nitrophenyl phenylphosphorothioate (EPN)	1987
259	Ethylbenzene	1991
260	Ethylene diamine	1992
261	Ethylene glycol	1987
262	Ethylene glycol monobutyl ether (EGBE) (2-Butoxyethanol)	2010
263	Ethylene thiourea (ETU)	1991
264	Ethyleneimine	1992
265	Ethylphthalyl ethylglycolate (EPEG)	1987
266	Express	1989
267	Fenamiphos	1987
268	Fluometuron	1988
269	Fluoranthene	1990
270	Fluorene	1990
271	Fluorine (soluble fluoride)	1987
272	Fluridone	1987
273	Flurprimidol	1989

274	Flutolanil	1989
275	Fluvalinate	1988
276	Folpet	1988
277	Fomesafen	1988
278	Fonofos	1987
279	Formaldehyde	1991
280	Formic acid	1990
281	Fosetyl-al	1988
282	Furan	1987
283	Furfural	1988
284	Furmecyclox	1988
285	Glufosinate-ammonium	1987
286	Glycidaldehyde	1991
287	Glyphosate	1989
288	Haloxyfop-methyl	1990
289	Harmony	1988
290	Heptachlor	1991
291	Heptachlor epoxide	1991
292	n-Heptane	1993
293	Hexabromobenzene	1988
294	Hexabromodiphenyl ether	1990
295	2,2',4,4',5,5'-Hexabromodiphenyl ether (BDE-153)	2008
296	Hexachlorobenzene	1991
297	Hexachlorobutadiene	1993
298	alpha-Hexachlorocyclohexane (alpha-HCH)	1991
299	beta-Hexachlorocyclohexane (beta-HCH)	1991
300	delta-Hexachlorocyclohexane (delta-HCH)	1987
301	epsilon-Hexachlorocyclohexane (epsilon-HC)	1987
302	gamma-Hexachlorocyclohexane (gamma-HCH)	1988
303	technical Hexachlorocyclohexane (t-HCH)	1991
304	Hexachlorocyclopentadiene (HCCPD)	2001
305	Hexachlorodibenzo-p-dioxin (HxCDD), mixture of 1,2,3,6,7,8-HxCDD and 1,2,3,7,8,9-HxCDD	1991
306	Hexachloroethane	2011
307	Hexachlorophene	1988
308	Hexahydro-1,3,5-trinitro-1,3,5-triazine (RDX)	1990
309	1,6-Hexamethylene diisocyanate	1994
310	n-Hexane	2005
311	2-Hexanone	2009
312	Hexazinone	1990
313	Hydrazine/Hydrazine sulfate	1991
314	Hydrogen Cyanide and Cyanide Salts	2010
315	Hydrogen chloride	1995
316	Hydrogen sulfide	2003
317	Hydroquinone	1990
318	Imazalil	1987
319	Imazaquin	1987
320	Indeno[1,2,3-cd]pyrene	1994

321	Iprodione	1988
322	Isobutyl alcohol	1987
323	Isophorone	1992
324	Isopropalin	1987
325	Isopropyl methyl phosphonic acid (IMPA)	1992
326	Isoxaben	1991
327	Lactofen	1988
328	Lead and compounds (inorganic)	2004
329	d-Limonene	1993
330	Linuron	1989
331	Londax	1988
332	Malathion	1987
333	Maleic anhydride	1988
334	Maleic hydrazide	1987
335	Maneb	1988
336	Manganese	1995
337	Mepiquat chloride	1988
338	Mercuric chloride (HgCl2)	1995
339	Mercury, elemental	1995
340	Merphos	1992
341	Merphos oxide	1992
342	Metalaxyl	1987
343	Methacrylonitrile	1988
344	Methamidophos	1987
345	Methanol	1988
346	Methidathion	1989
347	Methomyl	1987
348	Methoxychlor	1992
349	2-Methoxyethanol	1991
350	Methyl acrylate	1990
351	Methyl chloride	2001
352	Methyl chlorocarbonate	1989
353	Methyl ethyl ketone (MEK)	2003
354	Methyl iodide	1992
355	Methyl isobutyl ketone (MIBK)	2003
356	Methyl isocyanate	1991
357	Methyl methacrylate	1998
358	Methyl parathion	1987
359	Methyl tert-butyl ether (MTBE)	1993
360	4-(2-Methyl-4-chlorophenoxy) butyric acid (MCPB)	1988
361	2-(2-Methyl-4-chlorophenoxy) propionic acid (MCPP)	1989
362	2-Methyl-4-chlorophenoxyacetic acid (MCPA)	1987
363	Methylene Diphenyl Diisocyanate (monomeric MDI) and polymeric MDI (PMDI)	1998
364	4,4'-Methylene bis(N,N'-dimethyl)aniline	1989
365	Methylmercury (MeHg)	2001
366	2-Methylnaphthalene	2003
367	2-Methylphenol	1992

368	3-Methylphenol	1992
369	4-Methylphenol	1992
370	Metolachlor	1990
371	Metribuzin	1993
372	Mirex	1992
373	Molinate	1988
374	Molybdenum	1992
375	Monochloramine	1994
376	Naled	1987
377	Naphthalene	1998
378	Napropamide	1989
379	Nickel carbonyl	1987
380	Nickel refinery dust	1991
381	Nickel subsulfide	1991
382	Nickel, soluble salts	1991
383	Nitrapyrin	1992
384	Nitrate	1991
385	Nitric oxide	1994
386	Nitrite	1987
387	Nitrobenzene	2009
388	Nitrogen dioxide	1994
389	Nitroguanidine	1990
390	p-Nitrophenol	1991
391	2-Nitropropane	1991
392	N-Nitroso-N-methylethylamine	1988
393	N-Nitroso-di-n-butylamine	1991
394	N-Nitrosodi-N-propylamine	1987
395	N-Nitrosodiethanolamine	1987
396	N-Nitrosodiethylamine	1991
397	N-Nitrosodimethylamine	1991
398	N-Nitrosodiphenylamine	1987
399	N-Nitrosopyrrolidine	1991
400	Nonabromodiphenyl ether	1990
401	Norflurazon	1987
402	NuStar	1988
403	Octabromodiphenyl ether	1990
404	Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine (HMX)	1989
405	Oryzalin	1989
406	Oxadiazon	1987
407	Oxamyl	1987
408	Oxyfluorfen	1987
409	Paclobutrazol	1987
410	Paraquat	1988
411	Parathion	1988
412	Pendimethalin	1988
413	Pentabromodiphenyl ether	1990
414	2,2',4,4',5-Pentabromodiphenyl ether (BDE-99)	2008

Pentachlorobenzene	1992
Pentachlorocyclopentadiene	1990
Pentachloronitrobenzene (PCNB)	1987
Pentachlorophenol	2010
Pentafluoroethane	1993
Perchlorate (CIO4) and Perchlorate Salts	2005
Permethrin	1987
Phenanthrene	1990
Phenmedipham	1990
Phenol	2002
m-Phenylenediamine	1987
Phenylmercuric acetate	1987
Phosalone	1988
Phosgene	2006
Phosmet	1987
Phosphine	1995
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	Pentachloronitrobenzene (PCNB) Pentachlorophenol Pentafluoroethane Perchlorate (ClO4) and Perchlorate Salts Permethrin Phenanthrene Phenmedipham Phenol m-Phenylenediamine Phenylmercuric acetate Phosalone Phosgene Phosmet

462	Quinoline	2001
463	Quinone	1990
464	Radium 226,228	1989
465	Radon 222	1989
466	Refractory ceramic fibers	1992
467	Resmethrin	1988
468	Rotenone	1988
469	Savey	1988
470	Selenious acid	1991
471	Selenium and Compounds	1991
472	Selenium sulfide	1991
473	Selenourea	1991
474	Sethoxydim	1989
475	Silver	1991
476	Silver cyanide	1987
477	Simazine	1993
478	Sodium azide	1987
479	Sodium cyanide	2010
480	Sodium diethyldithiocarbamate	1988
481	Sodium fluoroacetate	1991
482	Strontium	1992
483	Strychnine	1987
484	Styrene	1992
485	Systhane	1988
486	Tebuthiuron	1988
487	Terbacil	1987
488	Terbutryn	1988
489	Tetrabromodiphenyl ether	1990
490	2,2',4,4'-Tetrabromodiphenyl ether (BDE-47)	2008
491	1,2,4,5-Tetrachlorobenzene	1988
492	Tetrachlorocyclopentadiene	1990
493	2,3,7,8-Tetrachlorodibenzo-p-dioxin	2012
494	1,1,1,2-Tetrachloroethane	1991
495	1,1,2,2-Tetrachloroethane (subchronic)	2010
496	1,1,2,2-Tetrachloroethane (chronic)	2010
497	Tetrachloroethylene	2012
498	2,3,4,6-Tetrachlorophenol	1988
499	Tetrachlorovinphos	1987
500	Tetraethyl lead	1987
501	Tetraethyldithiopyrophosphate	1988
502	Tetrafluoroethane	1995
503	Tetrahydrofuran	2012
504	Thallium (I), soluble salts	2009
505	Thallium acetate	2009
506	Thallium carbonate	2009
507	Thallium chloride	2009
508	Thallium nitrate	2009

509	Thallium oxide	2009
510	Thallium selenite	2009
511	Thallium(I) sulfate	2009
512	Thiobencarb	1987
513	Thiophanate-methyl	1988
514	Thiram	1987
515	Toluene	2005
516	2,4-/2,6-Toluene diisocyanate mixture (TDI)	1995
517	Toxaphene	1991
518	Tralomethrin	1989
519	Triallate	1990
520	Triasulfuron	1991
521	1,2,4-Tribromobenzene	1987
522	Tribromochloromethane	1991
523	Tribromodiphenyl ether	1990
524	Tributyltin oxide (TBTO)	1997
525	1,1,2-Trichloro-1,2,2-trifluoroethane (CFC-113)	1988
526	Trichloroacetic acid	2011
527	1,2,4-Trichlorobenzene	1992
528	Trichlorocyclopentadiene	1990
529	1,1,1-Trichloroethane (Acute)	2007
530	1,1,1-Trichloroethane (Short-term)	2007
531	1,1,1-Trichloroethane (Subchronic)	2007
532	1,1,1-Trichloroethane (Chronic)	2007
533	1,1,2-Trichloroethane	1991
534	Trichloroethylene (adult immunological effects)	2011
535	Trichloroethylene (developmental immunotoxicity)	2011
536	Trichloroethylene (heart malformations)	2011
537	Trichlorofluoromethane	1987
538	2,4,5-Trichlorophenol	1991
539	2,4,6-Trichlorophenol	1991
540	2(2,4,5-Trichlorophenoxy) propionic acid (2,4,5-TP)	1988
541	2,4,5-Trichlorophenoxyacetic acid (2,4,5-T)	1988
542	1,1,2-Trichloropropane	1998
543	1,2,3-Trichloropropane	2009
544	Tricresol	1992
545	Tridiphane	1987
546	Triethylamine	1991
547	Triethylene glycol monobutyl ether	1994
548	Triethylene glycol monoethyl ether	1994
549	Trifluralin	1989
550	2,2,4-Trimethylpentane	2007
551	1,3,5-Trinitrobenzene	1997
552	2,4,6-Trinitrotoluene (TNT)	1989
553	Uranium, natural	1989
554	Uranium, soluble salts	1989
555	Urea	2011

556	Vanadium pentoxide	1988
557	Vernam	1987
558	Vinclozolin	1987
559	Vinyl acetate	1990
560	Vinyl bromide	1994
561	Vinyl chloride	2000
562	Warfarin	1987
563	White phosphorus	1990
564	Xylenes	2003
565	Zinc and Compounds	2005
566	Zinc cyanide	1987
567	Zinc phosphide	1988
568	Zineb	1987

RfD?		Intra	species		Inte	rspecies		Lto	o N		
KIU	Value	Disc'd	Note	Value	Disc'd	Note	Value	Disc'd	Note	Value	Disc'd
Υ	10	Υ		10	Υ		1	N	N as POD	10	Υ
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Υ	10	Υ		10	Υ		1	N	N as POD	10	Υ
N											
Υ	10	Υ		10	Υ		1	N	N as POD	1	N
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Υ	10	Υ		3	Υ	r-m.	N/A	Υ	BMR	1	Υ
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N						·····					
Υ	10	Υ		10	Υ		1	N	N as POD	1	N
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N				1-1111							
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Υ	10	Υ		10	Υ	1-1111	1	N	N as POD	С	Υ
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Υ	10	Υ		10	Υ		1	N	N as POD	1	N

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TY	10	Y	~~~	10	Y		1	N	N as POD	1	N
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Y	10	Υ		10	Y		N/A	Y	BMR	1	Υ
$\frac{1}{N}$	10		****	10			IN/A	I	DIVIN		I
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$\frac{1}{Y}$	10	Y		10	Y	Human exposure	10	N	N as POD	1	N
	10	Y	40.00	10	Y		1	N	N as POD	1	N
		Y		<del></del>	Y				N as POD		
Y	10			10			1	N		1	N
<u> </u>	10	Y	and the same	10	Y	James No.	1	N	N as POD	N/A	N
Y	10	Y		10	Υ		1	N	N as POD	1	Y
N						2020				4.0	
Y	10	Y	200 A	10	Υ	****	1	N	N as POD	10	Υ
Y	10	Y		1	N	Human exposure	?	Υ	Other UF	3	Υ
Y	10	Υ	an no an	10	Y	J-2000	10	Υ	20 M M	1	N
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N			and the seco			and the			and the the		
N			***************************************						*****		
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Y	1	Υ	A4 40 40	1	N	Human exposure	1	N	N as POD	1	N
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N			and the star			Secretary Res			and the	A4 5.6 . A.	
Υ	10	Υ		10	Υ		N/A	Υ	BMR	1	Υ
Υ	10	Υ		10	Υ		1	N	N as POD	1	N
Υ	10	Υ	an en an	10	Υ	Jan 20 Mar.	1	N	N as POD	1	N
Υ	10	Υ		10	Υ	~~~	1	N	N as POD	1	N
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N			200						~~~		
N		NA CO. JOS	and their also		****	de de la		50 st. 60	and the last	20.2	
N			J44 44 144			A-A-A-A	***		20.00.00		
Υ	10	Υ		10	Υ		?	N	LtoN v SubC	10?	Υ
Y	10.4	Υ	in the star	6.3	Υ	Architecture .	N/A	N	BMR post-03	N/A	N
Y	10	Υ		10	Υ	····	1	N	N as POD	1	N
N			30 No. 100			- A A A					
Y	10	Υ		10	Y		N/A	Υ	BMR	N/A	N
ΙŢ	10	Y	and the second	10	Y		N/A	Y	BMR	3	Υ
N			30.50			, Ac. 40 Au			30.50.50		
Y	10	Υ		10	Υ		С	Υ		1	N
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N	10	 V	24.2	10	·····		4	N.I	N DOD	10	 V
<u>Y</u>	10	Y	and their stars	10	Y	stander film	1	N	N as POD	10	Y
Y	10	Υ	~~~	10	Υ		1	N	N as POD	10	Υ
N			24 A. S.						A 44 44		
Y	10	Υ	40 to 40	10	Υ	United No.	1	N	N as POD	1	N
Y	10	Υ	***	10	Υ	2000	1	N	N as POD	1	N
N	A. 14 1A.	40.00.00	and him also	30.00		strende has			and the land		100,000
Y	10	Υ		10	Υ		1	N	N as POD	10	Υ
<u> </u>	10	Υ	and the same	10	Υ	arana.	1	N	N as POD	10	Υ
Y	10	Υ	22.50.50	10	Υ		1	N	N as POD	1	N
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Υ	10	Υ	an an an-	10	Υ	yley All All	1	N	N as POD	1	N
N											
Υ	10	Υ	alan maka sahar	1	N	Human exposure	1	N	N as POD	1	N
Υ	10	Υ		1	N	Human exposure	1	N	N as POD	1	N
N	200		~~~				2000.20				
Υ	10	Υ	20 M. Ve	10	Υ	Mr. 80 MA	1	N	N as POD	N/A	N
Υ	10	Υ	www.	10	Υ		10	Υ		1	N
Υ	10	Υ	and the later	10	Υ	ster Adv	1	N	N as POD	1	N
Υ	10	Y		10	Υ		1	N	N as POD	1	N
Υ	10	Υ	and his also	10	Υ	skinder bok	1	N	N as POD	1	N
Y	10	Υ	201 MAY 2011	10	Υ	30-30-50	1	N	N as POD	N/A	N
Υ	10	Υ	~~~	10	Υ		N/A	Υ	BMR	3	Υ
N	AL 14 1A	4,4 0,0 ,40	and the ster-	10-10-10-1			A 44. A.				April program
Y	10	Υ		10	Y		1	N	N as POD	1	N
Υ	10	Υ		10	Υ		1	N	N as POD	1	N
N		~~~	en en en		~~~						
l y l	10	Υ	and the second	1	N	Human exposure	10	Y		1	Υ
Y	10	Υ	an an an-	10	Υ	30.000	10	Υ		1	N
Y	10	Υ		10	Υ		1	N	N as POD	1	N
Y	10	Υ	da sa da	10	Υ	de Ad MA	N/A	Υ	BMR	1	Υ
Y	10	Υ		10	Y	3000	1	N	N as POD	1	N
Y	10	Y	one and the second seco	10	Y		1	N	N as POD	1	N
Ϋ́	10	Y	20 M Jr.	10	Y	JACAB BA	1	N	N as POD	1	N
Ϊ́Υ	10	Y		10	Y		1	N	N as POD	N/A	Y
Y	10	Y	AND AND AND	10	Y	JA-JA-BA	1	N	N as POD	N/A	Y
N							-				
N											
Y	10	Υ	20.00	10	Υ	1000	10	Υ	****	1	N
<del>'</del>	10	Y		10	Y		1	N	N as POD	10	Y
<u>'</u>	10	Y		10	Y	2000	1	N	N as POD	N/A	N
l i	10			10					IVASTOO	14/7	
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	~~~	***	20 A. A.		~~~	***************************************	<b> </b>	<b> </b>	****	<b> </b>	
N	10	V		10	V		NI/A	V	DMD	1	V
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L N										~~~	

Υ	10	Υ		10	Υ		1	N	N as POD	10	Υ
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Y	10	Υ		10	Υ	****	1	N	N as POD	3	Υ
	200					de de de					
N						accan na					
N	***	****	, Add Ball, Jack		***	salve della della	****	10.00	AC 55 54	***	
N						,000 M					
Υ	10	Y		10	Υ	person has	1	N	N as POD	10	Υ
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N			20 to 20		~~~				~~~		
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Υ	10	Υ		10	Υ	and the	1	N	N as POD	1	N
Υ	10	Υ	an an an	10	Υ	server ex-	1	N	N as POD	1	N
Υ	10	Υ		10	Υ		1	N	N as POD	1	N
Y	10	Υ	, del tito	10	Υ	ster date that	1	N	N as POD	1	N
Y	10	Υ		10	Υ	***	1	N	N as POD	1	Υ
Υ	10	Υ		10	Υ		1	N	N as POD	1	N
Y	10	Υ		10	Υ	M-104 PA	1	N	N as POD	1	N
Y	10	Υ		10	Υ		1	N	N as POD	1	N
Y	10	Υ	- Marie - Mari	10	Υ	, de 1 de 1 de 1	1	Υ		3	Υ
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N		~~~						~~~		~~~	
Y	10	Υ	and their stars	10	Υ	de datas.	10	Υ	AC 50 50.	1	Υ
Υ	10	Υ		10	Υ		1	N	N as POD	10?	Υ
Υ	10	Υ	and the state	10	Υ	distant has	1	N	N as POD	N/A	N
Υ	10	Υ	20 M. W.	3	Υ	MCAPA.	10	Υ	****	3	Υ
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N			and the stare			January No.			All Maria.		
N				A-A-A-						A44.A	
Y	10	Υ		10	Υ	decidents	N/A	Υ	BMR	10	Υ
Y	10	Y	20 M. Ve	10	Y	***	N/A	Y	BMR	10	Y
Y	10	Y		10	Y		N/A	Y	BMR	1	Y
$\frac{1}{V}$	3	Y	and the star-	3	Y	***	N/A	Y	BMR	1	Y
<u>'</u>	10	Y		10	Y		1	N	N as POD	1	Y
$\frac{1}{Y}$	10	Y		10	Y		1	N	N as POD	10	Y
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N	40	· · · · ·	~~~	10			4				
Y	10	Y	***************************************	10	Y	4-44-44	1	N	N as POD	?	Υ
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Y	10	Υ	20 TO 100	10	Υ		1	N	N as POD	1	N
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Y	10	Y	20 10 Ve	10	Υ	20-24 M	1	N	N as POD	1	N
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لــنــا		L		لــــــــــــــــــــــــــــــــــــــ	<u> </u>	<b></b>	<u> </u>				

Υ	10	Υ		10	Υ		1	N	N as POD	10	Υ
Y	10	<u>.</u> Ү	del tito de	10	Y	****	1	N	N as POD	10	Y
Y	10	<u>.</u> Ү		1	N	Human exposure	10	Y		10	Y
Y	10	<u>.</u> Ү	200 to 20	10	Y		1	N	N as POD	10	Y
$\frac{1}{N}$		W 00.00	.00 Mar. Ann			*****					10.000
Y	10	Y		1	N	Human exposure	10	Υ		10	Υ
	10	<u>'</u> Ү	del No. de	10	Y		1	N	N as POD	1	N
N			~~~	10							
Y	10	Y	an and an	10	Υ	****	10	Υ	an sa sa	1	N
	10	Y		10	Y		1	Y		1	Y
$\frac{\lambda}{\lambda}$	10	Y		10	Y		1	N	N as POD	1	N
	10	Y	46 Mary No.	10	Y	M-AA-AA	1	N	N as POD	1	N
N			~~~	10					14 43 1 00		
$\frac{1}{V}$	10	Y	an no an	10	Υ	*****	1	N	N as POD	1	N
Y	10	Y		10	Y		10	Y		1	N
<del>'</del>	10	Y		10	Y		10	Y		C	Y
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TY T	10	<u>.</u> Ү		10	Y		1	N	N as POD	1	N
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Y	10	Y		10	Y		1	N	N as POD	1	N
N			ara ar		A 44 A	acara.					
Y	10	Υ	and the	10	Υ	No. Andrea	1	N	N as POD	1	N
Y	10	Υ	~~~	10	Υ		1	N	N as POD	1	N
N		NA 100 AV	200 Miles No.	A-A-A	A4 A4	Merida NA		N. A. A.	A1 M 14	AP 14. A-	
Y	10	Υ	~~~	10	Υ		1	N	N as POD	1	N
Y	10	Υ		10	Υ	AN AND THE	1	N	N as POD	10	Υ
Y	10	Υ	***	10	Υ	aran na	3	Υ		10	Υ
N									20.00.00		
Υ	10	Υ	an an an	10	Υ	and the	1	N	N as POD	10	Υ
Υ	10	Υ		10	Υ		1	N	N as POD	10	Υ
Υ	10	Υ	and the state	10	Υ	des del tels	1	N	N as POD	N/A	N
Υ	10	Υ		10	Υ		1	N	N as POD	1	N
Υ	10	Υ		10	Υ	acces and	1	N	N as POD	1	N
Υ	10	Υ	ide de lide	10	Υ	ancida da	1	N	N as POD	1	N
Υ	10	Υ	~~~	10	Υ		10	Υ	~~~	1	N
N						aterial talk		NA 44-A4	40.00		
Υ	10	Υ	~~~	10	Υ		1	N	N as POD	10	Υ
N		44 00 00	and the state		****	and the			and the same		
Υ	10	Υ	20 No. 10-	10	Υ	stratul tak	1	Υ	20 M M	3	Υ
Υ	10	Υ		10	Υ		1	N	N as POD	1	N
N	, a. a. a.	64.00	and the late.	and the	AP NO. AL	and the	and the sales	44, 44, 44	and the second	A4 64 A4	100, 202, 204
N			~~~								
N						de de la			an se se.		
N	~~~				***						
N				~~~							
Y	10	Y		10	Υ		1	N	N as POD	10	Υ
N			~~~								
Y	10	Υ	and the same	10	Υ	strate to	?	N	BMR pre-03	3	Υ
N					***						
Y	10	Υ		10	Υ		N/A	Υ	BMR	3	Υ
Y	10	Y		10	Y		10	Υ	A- 4- 4-	3	Υ
Y	10	Υ		10	Υ	****	1	N	N as POD	1	N
N I		44.44		Jan Adrian			20.00	10.00	AN AN AN		
N				10					D14D		
<u>Y</u>	10	Y		10	Y		N/A	Y	BMR	1	Y
Y	10	Y		10	Υ		1	N	N as POD	1	N
N	10	· · · · · ·		10	····		NI / A	·····	DAAD	10	······
Y	10	Y	- AT TAX - AT-	10	Y	14-14-14	N/A	Υ	BMR	10	Y
N					~~~					~~~	
N		4.0 Co. A.0	A 10 A 10	AL AN EA		AND THE STREET	.00.00		N. N.		******
N	10	V		10	V		1	N.I	N cc DOD	4	N.I
l Y	10	Y		10	Y		1	N	N as POD	1	N
Y	10	Y	, de de la la	10	Y	serve ex	1	N	N as POD	1	N
N			~~~								

- V	10			10			4		N 505	4	
Y	10	Y	~~~	10	Y		1	N	N as POD	1	N
Y	10	Υ		10	Υ	March A.A.	1	N	N as POD	10	Υ
Υ	10	Υ	***	10	Υ		1	N	N as POD	10	Υ
Υ	10	Υ	and the start	10	Υ	di da da	1	N	N as POD	10	Υ
Υ	10	Υ	AP 40 AP	10	Υ	A-A-A-A	1	N	N as POD	10	Υ
Υ	10	Υ		10	Υ		1	N	N as POD	1	N
Υ	10	Υ	en no en	10	Υ	ACAD NA	10	Υ	40 to 10	1	N
N											
N			alah kala salas			de son ha			aka na na		
Υ	10	Υ	****	10	Υ	****	3	Υ	~~~	1	N
Υ	10	Υ	~~~	10	Υ	****	1	N	N as POD	1	N
Υ	10	Υ	en ne en	1	N	Human exposure	1	N	N as POD	?	N
Υ	10	Υ		10	Υ		1	N	N as POD	1	N
Υ	10	Υ	and that sides	10	Υ	A-24 AA	10	Υ		1	N
Υ	10	Υ	***	10	Υ	***	1	N	N as POD	10	Υ
Υ	1	N	cross-sectional	1	N	Human exposure		N	N as POD	1	N
Y	10	Υ	A4 44 A4	10	Υ	Ar-Ar-Ar.	1	N	N as POD	С	Υ
Y	С	Y		С	Y		10	Υ	~~~	10	Y
N			and the star.			de state film			ation that the		400.000
Y	10	Y	~~~	10	Y		1	N	N as POD	10	Υ
Y	10	Y	and the state	10	Y	ALAM NA	1	N	N as POD	10	Y
Y	10	Y	20 A. C.	10	Y	***	1	N	N as POD	1	Y
Y	10	Y	~~~	10	Y		1	N	N as POD	10	Y
Y	10	Y	20 to 20	10	Y		10	Y	IN AS FOU	10	N
Y	10	Y		10	Y		1	N	N as POD	10	Y
Y	10	Y			Y						N
-		ļ	and the state	10		Accounts to	1	N	N as POD	1	
Y	10	Y	30 M. St.	10	Y	A-A-A-A	1	N	N as POD	1	N
Y	10	Y		10	Y		1	N	N as POD	N/A	N
N		44.44	194 AA 194-	A-A-A	A 14. A	, 20-24-54.	24.50	****		A4 A4	
N		***	~~~		~~~		~~~				***
N	Jan 64 66		, et 44, 36;								
N			***								
Y	10	Y		10	Y		N/A	Υ	BMR	N/A	Y
N			20 to 10:			ACACAA		~ ~ ~	20.00.00		
N	~~~	***			~~~					~~~	
N			, and the color			Arrian ha		10. 10. 10	and the time	A4 54. A4	
Υ	10	Υ	~~~	3	Υ		1	N	N as POD	1	N
Υ	10	Υ		10	Υ		1	N	N as POD	1	N
N		***	22 % Sc		~~~					***	*****
Υ	10	Υ	er to to	10	Υ		1	N	N as POD	С	Υ
Υ	10	Υ	jago kaja jago.	10	Υ	and the	1	N	N as POD	10	Υ
Υ	10	Υ		10	Υ		1	N	N as POD	1	N
N			and the sales	and the		world bit.					
N			20.00			200			ee 20.00		
Υ	10	Υ	en to se	1	Υ	Ac 24 %	?	N	BMR pre-03	N/A	N
Υ	10	Υ	jan san jan	10	Υ	A-A-A-A	N/A	Υ	BMR	1	Υ
Υ	10	Υ	~~~~	10	Υ		1	N	N as POD	10	Υ
		L	I		L	1	L	l			

Υ	10	Υ	ww.w	10	Υ		1	N	N as POD	10	Υ
$\frac{1}{N}$	10	1	and the star	10		36.00.00		No. of contrast	14 43 1 00	10	100.000
	10	Y	~~~	10	Υ		1	N	N as POD	1	N
$\frac{1}{1}$	10	Y	200 200 200	10	Y	36.00.00	1	N	N as POD	1	N
	10	Y	an en an	10	Y	10:00.50	1	N	N as POD	1	N
	10	Y		10	Y		1	N	N as POD	?	N
<del>'</del>	3	Y	and the star-	1	N	Human exposure	10	Υ		1	N
$\vdash \dot{\forall} \vdash$	10	Y	~~~	10	Υ		1	N	N as POD	1	N
Y I	10	Y	and the star	10	Y	36.34.56	1	N	N as POD	1	N
Y	10	Y		10	Y		1	N	N as POD	10	Y
Υ	10	Y		10	Y		1	N	N as POD	1	N
N		******	and the store			stread the			A4 A4 A4		10.000
N											
N			and this also			January Res.			and the sale	AP 54. AL	
Ϋ́	10	Υ		10	Υ	Januaria.	1	N	N as POD	1	N
N											
Ϋ́	1	Υ	and the start	1	N	Human exposure	1	N	N as POD	N/A	N
N		~~~	www.w								
Y	1	Υ	00 No. No.	1	N	Human exposure	1	N	N as POD	N/A	N
Y	10	Y		10	Υ		N/A	Υ	BMR	3	Y
N			24 to 20								
Υ	10	Υ	20.00.00	10	Υ	200	1	N	N as POD	10	Υ
N			~~~								
N	Jan 144 Car.		and the abo	20.00	24.00	2012 M.A.	A4 50. A1	NA AN AN	40.50.54	Ad No. Ar	
N			**************************************			**************************************			~~~~		
N			and the sales			. According			and the same		
N		~~~				. A-14-14.			20.00		
N		~~~	was w		~~~	Jacob Na.			an an an	~~~	~~~
N	A 14 1A	4,4 4,44	inter the control	10000000	0.00	Mer Adi Adi	A4 50 A1	NA 14-14	per ser ser	AR NA JA-	400,000
N			~~~								
N	JANE BAR SAN		and the star		A4 64 A	sterior to	Ad the de-	NA 16-16	AND 201	All the star	
N			~~~						~~~		
N		~~~									
Υ	10	Υ	100 May 100	10	Υ	10-A4-A6	1	N	N as POD	1	Υ
Υ	10	Y		10	Υ		1	N	N as POD	1	N
Υ	10	Υ	SATE AND SATE	10	Υ	Juna Ma	1	N	N as POD	10	Υ
Υ	10	Υ		10	Υ		1	N	N as POD	10	Υ
Υ	10	Υ	de to de	10	Υ	J. 24 A.	1	N	N as POD	1	N
Υ	10	Υ	20 to 20	10	Υ		1	N	N as POD	1	N
Υ	10	Υ	er er	10	Υ		1	N	N as POD	1	N
Υ	10	Υ	en en en	10	Υ	strong the	1	N	N as POD	1	N
Υ	10	Υ	****	10	Υ		1	N	N as POD	10	Υ
Υ	10	Υ	de to de	10	Υ	January San	1	N	N as POD	1	N
N			20 to 20								
Υ	10	Υ	~~~	10	Υ		1	N	N as POD	1	N
Υ	10	Υ	en en en	10	Υ	Jacob An	1	N	N as POD	10	Υ
L Y	10	Υ	***************************************	10	Υ		N/A	Υ	BMR	3	Υ

Υ	10	Υ		10	Υ		10	Υ		10	Υ
l N		to the sta	and the star		***	decide No.		No. 30 Ad	an so so.		10.000
TY	10	Υ		10	Υ		1	N	N as POD	1	N
Y	10	Υ	and the sec	10	Υ		3	Υ		1	Υ
N		W 40, 40	an no. an	20-20-20		ACAGAA	A444.44	M. A. M.	20 TO 10.	AAA A	****
Y	10	Υ		1	Υ		1	Υ		1	Υ
Y	10	Υ	AN PAGE ARE	10	Υ	Model NA	1	N	N as POD	1	N
N											
Y	10	Υ	44 A. W.	10	Υ	A-104 M	1	N	N as POD	1	N
Y	10	Υ	***	10	Υ		N/A	Υ	BMR	N/A	Υ
Y	10	Υ	***	10	Υ		1	N	N as POD	10	Υ
Y	10	Υ	and the later	10	Υ	photode the	1	N	N as POD	1	N
N					~~~						
N		W 00.00	and the star.			alcohe fine			an Marin	AP 54. AL	
Y	10	Υ		10	Υ		1	N	N as POD	1	N
Υ	10	Υ	AP 500 AU	10	Υ	account to	1	N	N as POD	1	N
N	JAN 101 100	64.66,30	AR NO. IAC	100-000	A4 44 A	Accept to A	A456.A-	No. 16-164	00 M M	ARAL A	90 ye or
Υ	10	Y		10	Υ		10	Υ		1	N
Υ	10	Υ	AN ROS AND	10	Υ	Archit No.	1	N	N as POD	?	N
Υ	10	Υ		1	N	Human exposure	1	N	N as POD	?	N
N		60.00	30 SA 30			*****	Addison de		AL 14 TA	A 14. A	
N		W 00.00	100 M		A 14. A	A-A-A-A			~~~		
N							~~~		~~~		
Y	10	Υ	AND AND	10	Υ	M-ARTAN	1	N	N as POD	1	N
Υ	10	Υ		10	Υ		1	N	N as POD	10	Υ
Υ	10	Υ	and the same	10	Υ	de son ha	1	N	N as POD	1	N
Υ	10	Υ	200	10	Υ	A-A-A-A	1	N	N as POD	1	N
Υ	10	Υ		10	Υ		1	N	N as POD	10	Υ
Y	10	Υ	state that state	10	Υ	parada has	1	N	N as POD	1	N
Y	10	Υ		10	Υ		1	N	N as POD	1	N
Y	10	Υ	40 NA 40	10	Υ	Archit No.	1	N	N as POD	N/A	N
Y	10	Υ		10	Υ		1	N	N as POD	10	Υ
Y	10	Υ		10	Υ		1	N	N as POD	1	N
<u> </u>	10	Υ		10	Υ	ACAP AA	1	N	N as POD	10	Υ
<u> </u>	10	Υ	~~~	10	Υ		1	N	N as POD	1	N
N			de sou sou		~ ~ ~	de de la			, and the state		
N											
N					~~~	Jacobs No.					
N	~~~			****	~~~					***	
N	~~~				~~~						
N	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	***************************************	AC NO. NO.	,4-,444		West to		******	40 to 16	A 14. A.	******
N							-				
Y	10	Y	Art No. do.	10	Y	Account to	1	N	N as POD	1	N
Y	10	Y		10	Y		1	N	N as POD	1	Y
Y	10	Y		10	Y		1	N	N as POD	10	Y
<u>Y</u>	10	Y		10	Y	M-M-M-M-	1	N	N as POD	10	Υ
Y	10	Υ		10	Υ		1	N	N as POD	1	N

N											
N	Jul 14 UK	NA NA NA	and the star.	an and the	0.0 (0.0)	36.00.00	24.50	10.00	40 M W	A4 54. Av	
I N			~~~						~~~		
N		W 100.00				36.00.00		No. 2012	AG 54 74.		
I N		10 to 100	AND NO.	A- A4 AA		A-A-A-	A44A A-		AA AA AA		10.00
Y	10	Υ	~~~	10	Υ		10	Υ		N/A	N
Y	10	Y	and the star	10	Y	A-A-A-A	1	N	N as POD	1	N
Y	10	Y	~~~	10	Y		1	N	N as POD	1	N
Ϋ́	3	Υ	and the state	1	N	Human exposure		N	N as POD	1	N
ΙŢ	3	Y	201 MA 202	1	N	Human exposure		N	N as POD	1	N
N		-									
$\frac{1}{N}$	A 14 1A		san nas sas	30-30-50	A1 14. A1	Marchell Refs	20.00	N. 10-10	and the second	A4 54 A4	
Y	10	Y	***	10	Υ		1	N	N as POD	1	N
Y	3	Υ	and the state	1	N	Human exposure	?	N	LOAEL	1	Υ
Y	10	Y	***	10	Υ		1	N	N as POD	1	N
Y	10	Y	ww.w	10	Υ		1	N	N as POD	1	N
Y	10	Υ	W W W	10	Υ	WWW.	1	N	N as POD	10	Υ
N			~~~								
Y	10	Υ	and the advi-	10	Υ	MARKAN.	1	N	N as POD	10	Υ
Υ	10	Υ	~~~	10	Υ		1	N	N as POD	10	Υ
Y	3	Υ	and Mariana	10	Υ	alconomic de la constantina della constantina de	1	N	N as POD	1	N
Y	10	Υ	and the stare	10	Υ	W-48-94	10	Υ		10	Y
Υ	10	Y		10	Υ	January.	1	N	N as POD	10	Υ
Υ	10	Υ	and the sales	10	Υ	ster Art Art	1	N	N as POD	1	N
Υ	10	Y		10	Υ		1	N	N as POD	1	N
Υ	10	Υ	and the state	10	Υ	de de la	1	N	N as POD	1	N
Υ	10	Y	24.44.34	10	Υ		1	N	N as POD	1	N
N		~~~									
Υ	10	Y	and the above	10	Υ	strong the	N/A	Υ	BMR	3	Υ
Υ	10	Y	~~~	10	Υ		1	N	N as POD	10	Υ
N	,000 tot 100.	40.00	der des des	ata ata ata a		Januar An	A4 5A A5	NA. AL-AA	an an an	A. C. A.	No. of the
Υ	3	Υ	***	1	Υ	January.	10	Υ		1	Y
Υ	10	Υ		10	Υ		10	Υ		1	N
Y	10	Υ		10	Υ		N/A	Υ	BMR	N/A	N
Y	10	Υ		10	Υ		N/A	Υ	BMR	3	Υ
<u> </u>	10	Υ		1	Υ		10	Υ	***	1	Υ
Y	10	Y	*****	10	Υ		1	N	N as POD	10	Υ
Y	10	Υ		10	Υ		1	N	N as POD	1	N
Y	10	Υ	20 40 30-	10	Υ		10	Υ		10	Υ
<u> </u>	10	Υ	~ ~ ~	10	Υ		1	N	N as POD	10	Υ
N			, and the later	2-22-2		sterior day			AA AA AA		10.00
Y	10	Υ		10	Υ		N/A	Y	BMR	N/A	Υ
N			, and the , sho			Junior No.			an ne ne		
N			A4 44. 34.			ACAD AC					
N						JC 200 DO.					
N		****	, see the later		~ ~ ~	Januar San	****	****	, AG 44 A4		
N		****			~~~					~~~	

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N		Aut 400 Au	and the same		~~~	MATERIAL DATE	A4 84 A-		aka tan san		
N		~~~			~~~		~~~			~~~	
Υ	10	Υ	www.	10	Υ	2000	1	N	N as POD	1	Υ
Y	10	Υ	an an an	10	Υ	Jacob Ab.	1	N	N as POD	1	N
Y	10	Υ	~~~	10	Υ	~~~	1	N	N as POD	1	N
H $\overrightarrow{Y}$	10	Y	and the star-	10	Y	20.00.00	N/A	Y	BMR	10	Y
H N	10			10	-						
-											
N	40		and the state	4.0		and the			N. DOD		•••
Y	10	Y	~~~	10	Y		1	N	N as POD	1	N
Y	10	Υ		10	Υ		1	N	N as POD	1	N
Y	10	Υ	AN AN AN	10	Y	steritor total	1	N	N as POD	1	N
Υ	10	Υ		10	Υ		1	N	N as POD	10	Υ
N	Jan Sal Sal	April 1000 Japan	and the above	aller shall halls		Marchell Refs.	and their select	NA ALAM	also had hade	and the same	No. of the
N			****								
Υ	10	Υ		10	Υ	Jacobson	?	N	BMR pre-03	1	N
Υ	10	Υ	20 May 20-	1	N	Human exposure	1	N	N as POD	1	N
Υ	10	Υ		10	Υ		N/A	Υ	BMR	1	Υ
Y	10	Y	and the star	10	Υ	SECRETARIA	1	N	N as POD	10	Υ
N			~~~								
N					~~~	36.00 to			an Maria	AP No. Ac	
-					-						
N	40		20.00.00	10		JANAS NA			DNAD		
Y	10	Y		10	Y		N/A	Y	BMR	N/A	Υ
Y	10	Υ	144 AS 144	10	Υ	30-30 M	N/A	Υ	BMR	3	Υ
Y	10	Υ		10	Υ		1	N	N as POD	10	Y
Y	3	Υ		3	Υ	de de la	10	Υ		1	Υ
Υ	10	Υ	20.00.00	10	Y	20.00	10	Υ		N/A	Υ
Υ	3	Υ		3	Υ	Januari Na	N/A	Υ	BMR	N/A	Υ
Y	10	Υ	and their stars	10	Υ	MINAR NA	10	Υ	ation that their	1	N
Υ	10	Υ		10	Υ		1	N	N as POD	10	Υ
N			and the above		~~~	Accept the			and the late		
Υ	10	Υ	~~~	10	Υ	20.00	1	N	N as POD	1	N
Υ	10	Υ		10	Υ		1	N	N as POD	1	N
Y	10	Y	30 No. 30-	10	Υ	Jan Ada	1	N	N as POD	10	Υ
Y	10	<u>·</u> Y		10	Y		N/A	Y	BMR	1	Y
H H	10			10					DIVIN		
Y	10	Y		10	Y		1	N	N as POD	1	N
			***************************************	<del> </del>	<del> </del>				IN d5 FUU		
N					~~~	Jacob No.					
N N			***************************************		~~~				****		
N I	4.0		~~~~	4.0	~~~						
Y	10	Υ	and the same	10	Υ	Sec. Ad Ad-	1	N	N as POD	1	N
N											
Y	10	Υ		10	Υ	36.34.56	1	N	N as POD	1	N
Υ	10	Υ		10	Υ	January.	10	Υ		10	Υ
N					~~~						
Y	10	Υ	200 May 100	10	Υ	Mes AA AA	10	Υ	NO 24 74	1	Υ
N			~~~	~~~					~~ ~ ~		
			L	L	L	L	L	L	L	L	لــــــا

Υ	10	Υ	~~~	10	Υ		1	N	N as POD	1	N
Υ	10	Υ	out that yes	10	Υ	standa tata	1	N	N as POD	10	Υ
Υ	10	Υ	~~~	10	Υ	****	1	N	N as POD	1	N
N						and the					~~~
N		44.00.00	00 M M	,a-,a,a a,a		Jan 2012		*****	~~~	AP 44. A-	
Υ	10	Υ	~~~	3	Υ		1	N	N as POD	1	N
Υ	10	Υ	out that year	1	N	Human exposure	10	Υ		1	N
Υ	10	Υ	~~~	10	Υ	~~~	1	N	N as POD	1	N
Υ	10	Υ	and the star	10	Υ	ACAM NA	1	Υ		1	Υ
Υ	3	Υ	~~~	1	Υ	January 100	1	Υ	~~~	1	Υ
Υ	10	Υ	~~~	10	Υ		1	N	N as POD	1	N
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	Study	
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90-day rat f	eeding study	
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1-yr dog fe	eding study	
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2-gen rat re	pro study	
rat chronic		
	drinking water stud	
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2-gen rat re	epro study	
1-yr dog fee		
3-gen rat re		
acute huma	n oral poisoning	
1-yr dog fee	eding study	
rat chronic	feeding study	
2-yr rat stu		
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2-yr dog fee	eding study	
90-day rat f	eeding study	
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rat CHFONIC	oral bioassay	
1-yr dog fee		

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M. Acid	
Human chronic study	
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2-yr rat feeding study	
2-gen rat repro study	
2-yr rat feeding study	
2-gen rat repro study	
M. ASA	
2-yr mouse drinking water s	tudy
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Single-dose human study	
2-yr rat dietary study	
2-yr rat dietary study	
dog chronic oral bioassay	
3-gen rat repro study	
1-yr dog feeding study	
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mouse chron oral bioassay	
Market Control	
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Human daily intake	
M. Ariaki	
dog chronic feeding study	
3-gen rat repro study	
1-yr dog feeding study	
rat chronic oral study	
2-yr mouse dietary study	
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VA AVA	
rat chronic oral bioassay	
rat dietary gestational exp	
rat chronic feeding study	
90-day mouse gavage study	
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mouse chronic biosessu	
mouse chronic bioassay	

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2-yr rat feeding study	
2-yr rat feeding study	
1-yr dog feeding study	
1 yr dog reeding study	
ent abronic aral bioaccas	
rat chronic oral bioassay	
human chronic studies	
human chronic studies	
3-gen rat repro study	
1-yr dog feeding study	
1- and 3-gen rat repro studies	
rat chronic feeding study	
1-yr dog feeding study	
rabbit inhal teratogenic study	
N. 20-24	
2-yr rat feeding study	
2-yr rat feeding study	
Human clinical dose	
18-mon mouse oncogen study	
2-yr mouse oral study	
2-yr rat feeding study	
1-yr dog feeding study	
rat chronic drinking water study	
rat chronic oral study	
2-gen rat drinking water study	
2-gen rat drinking water study	
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rat chronic oral bioassay	
rabbit teratology study	
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dog chronic oral bissesses	
dog chronic oral bioassay	
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2-yr dog feeding study	
2-gen rat repro study	
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2-yr rat dietary study	
rat chronic feeding stu	dy
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rat chronic oral study	
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3-gen rat repro study	
1-yr dog feeding study	
6-mon dog oral study	
2-yr rat feeding study	
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2-yr rat feeding study	
1-gen rat repro & terat	o studies
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rat chronic aral	ctudy
rat chronic oral :	
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rabbit developm	ientai study
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2-yr rat oral stud	ЗV
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	A Action
at chronic oral	study
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	MA SACIAN
27-wk rat feedir	ng study
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rat chronic drink	ing water study
	water bioassay
rat subchronic to	
at subcilionic to	D chrome study
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nterim results c	of 2-yr rat oral bioassay
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rat oral subchro	
rat chronic feed	
1-yr dog feeding	; study
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2-yr rat feeding	study
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2-yr rat feeding	study
1-yr dog feeding	
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2-yr rat feeding 2-yr rat feeding	study ** ***
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2-yr rat feeding	study  ******  ******  ******  ******  ******

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2-yr dog feeding study
3-gen rat repro study
rat chronic oral study
2-yr dog feeding study
2-yr dog feeding study
rat chronic dietary study
2-yr rat dietary study
2-yr dog feeding study
1-yr dog feeding study
2-yr rat feeding study
2-yr dog feeding study
dog chronic oral bioassay
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16-day human study
85-day human oral study
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2-gen rat repro study
MA ALAM
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rat chronic feeding study
rat and mouse chronic inhalation study
2-yr rat feeding study
M. A
rat chronic oral bioassay
1-yr dog feeding study
2-yr dog feeding study
2-yr rat feeding study
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epidemiologic study in children
2-yr rat feeding study
2-gen rat repro study
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3-gen rat repro & terato studies	
2-yr rat feeding/onco study	
dog chronic oral tox study	
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2-yr dog feeding study	
2-yr rat oral bioassay	
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2-yr dog feeding study	
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3-gen rat repro study	┥
3-gen rat repro study	
2-yr rat feeding study	
2-yr rat feeding study	
60-wk dog feeding study	
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rat chronic feeding study	
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2-yr rat feeding study	
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13-mon rat drinking water study	
2-yr rat feeding study	
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2-yr dog feeding study	d
1-yr dog feeding study	♬
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1-yr dog feed	ling stud	У
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2-yr rat feedi	ng study	
1.5-yr mouse		
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2-yr dog feed	ling stud	V
1-yr dog feed		
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rat chronic o		iiig stuuy
2-yr rat feedi	rig study	
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numan chror	nc ingest	ion data
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	10. July	
6-mon dog fe	eding st	udy
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1-yr dog feed	ling stud	y
2-yr dog feed	ling stud	У
2-yr dog feed	ling stud	У
rabbit terato	logy stuc	ly
	April 1841 1	
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multi-gen rat	repro/d	evel studv
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2-yr rat drink	ina wate	rctudu
2-yr rat driffi 2-yr rat feedi		i study
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1-yr dog feed	iing stud	У
human devel		
81-wk mouse	dietary	study

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NA ACAM	
2-yr rat feeding study	
2-yr dog feeding study	
2-yr rat dietary study	
at fertility study	
numan lifetime dietary study	
rat chronic oral study	
2-yr rat dietary study	
3-gen rat repro study	
AA, Jordan	
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an action	
at chronic oral study	
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numan epidem surveys	
numan infant chronic exposure	
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5-mon dog feeding study	
1-yr dog feeding study	
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1-yr dog feeding study	
2-yr rat feeding study	
2-yr rat feeding/onco study	
2-mon mouse feeding study	
1-yr dog feeding study	
2-yr dog feeding study	
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W. J. W.	
2-yr dog feeding study	
1-yr dog feeding study	
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14-day human oral study	
2-yr rat feeding study	
2-yr rat feeding study	
rat developmental study	
rat chronic oral study	
2-yr rat feeding study	
rat chronic oral study	
rac contonic oral study	
mouse chron oral study	
6-mon dog feeding study	
56-day human feeding study	
NA JAM	
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2-yr dog feeding study	
106-wk dog feeding study	
2-yr dog feeding study	
2-yr rat feeding study	
2-yr dog feeding study	
rabbit develop tox study	
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2-yr rat feeding study	
1-yr dog feeding study	
W-W	
M. A.M.	
1-yr dog feeding study	
13-wk rat feeding study	
15 WK rat recuirig study	
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7 us dog foodies study	
2-yr dog feeding study	

	No. of cold	
	NA JANUAR	
	M. Market	
3-gen rat repi	ro study	
2-gen rat repi	ro study	
1-yr dog feed	ing study	
lifetime huma		
lifetime huma		
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1-yr dog feed	ing study	
2 to 9-yr hum		
rat chronic or		
2-yr rat feedii		
	MA JANUAR	
70 d 0 wk 2.	3-yr rat oral stud	ior
20-u, 3-WK &	3-yı tat Orai Stud	ies
7 verst fandi.	na studu	
2-yr rat feedir	***************************************	
2-gen rat repi		
2-yr dog feed		
2-yr rat feedii	ng study	
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human epi co	-	
rat chronic or		
rat subchroni	c dietary study	***************************************
human occ ex	posure study	
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2-yr dog feed	ing study	
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2-gen rat repi	ro study	
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	NA JOHN
2-yr rat feeding st	udy
2-yr rat feeding	
2-yr rat feeding	
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2-yr rat feeding	
2-yr dog feeding s	
2-yr mouse feedin	g
	MA JAWAN
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18-month rat feed	ling
Human worker stu	udy/unknown duration
60-wk mouse drin	
	M. ALM
90-day mouse die	tary study
***************************************	** *****
30-wk mouse drin	king water study
8-wk mouse drink	ing water study
rat maternal drink	ring water study
78-week rat/mice	bioassay
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2-yr dog feeding s	tudu
2-yr rat chronic fe	eung
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2-yr rat oral bioas	say
	An abused
2-gen rat repro stu	udy
	M. ALM
	W. W. W.
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1-yr dog feeding s	tudv
2-yr rat chronic fe	edina
z yr raccinomicie	cung
30-day rabbit oral	bioassay

rat chronic dietary study
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6-mon dog feeding study
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AL ACAD
rat chronic feeding study
Human clinical studies
1-gen rat repro study
rat chronic oral study
human clinical studies
2-yr rat feeding study
44.50.00
2-yr rat feeding study

Subcronic to Chronic	
	indpt
Inhibition of brain ChE	
Salivation, increased ALT and ornithine carbamyl transfera	ise significant increases in triglyceride and decreased blood glu
Mortality and kidney lesions	
Decreased survival	
Degenerative nerve changes	
Reduced pup weight	
Hemosiderosis, hemolytic anemia	
No adverse effects (maternal and fetal toxicity evaluated)	
Sweating as clinical sign of AChe inhibition	
Brain ChE inhibition in females	
Liver toxicity	
Decreased body weight	
Body weight and clinical parameters	
Increased mean blood sugar concentration; slight hypothe	ermia
Decrease in body weight	
	····
	1.11.
Longevity, blood glucose, and cholesterol	
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Liver effects; organ weight changes	

AAAA	
A.M.	
The second secon	
Hyperpigmentation, keratosis and possible vascular complications	
A-2014	
Liver cell enlargement	
Lower ovarian weight, lower liver/body weight	
Decreased body weight gain	
Increased retinal folds in weanlings, decreased viability and lactation indice	s decreased nun hadv weight increase of de
The casea recital rolas in wearings, accreased viability and lactation males	s, activated pap body weight, marcuse of ac-
North was able.	
Nephropathy	
A.M.A.	
Mild cholinergic symptoms and RBD ChE inhibition	
Decreased body weight gain, erythrocyte count and hemoglobin level	
Decreased body weights in males, inflammatory foci in kidneys of females	
Depressed erythrocyte counts	
Decreased pup weanling weights	
Blood loss into the gastrointestinal tract; coagulation defect in male and fer	male dogs
	naie dogs
^***	
Brain cell vacuolization; liver cell alterations in females	
No adverse effects observed	
No adverse effects observed	
A-1916	
Small intestinal lesions	
Decreased pup survival	
Tremors	
Kidney damage	
Decrease in hemoglobin and possible erythrocyte destruction	
Decrease in hemographic and possible crythrocyte destruction	
A.M.	
Reduced mean body weight	
Decreased fetal weight (developmental)	
Renal effects: urothelial hyperplasia	
A.494A	
Hepatocellular cytomegaly in male B6C3F1 mice	
A. A. A. A.	
Renal cytomegaly	

vu
A.77%
AVM
No adverse effects
No effects
A.AMA.
ALANA CONTRACTOR OF THE PROPERTY OF THE PROPER
Increased relative liver weight in male dogs
ALCOMA.
No adverse effect
Significant proteinuria
Significant proteinuria
Reduced offspring body weight
Kidney and bladder toxicity
Decreased mean body weights
Kidney and liver toxicity
RBC and plasma cholinesterase inhibition, and testicular and uterine effects
Fetal toxicity/ malformations
A. A. A. A.
Decreased body weight
Reduced weight gain, organ weight changes, increased mortality
a.vvu
CNS depression and GI irritation in humans
Hepatocyte degeneration
Hepatic necrosis
Renal lesions (glomerulosclerosis) in female Wistar rats
Increase in WBC, decreased in RBC in females, increase in alkaline phosphatase in males
No observed adverse effects
No adverse effects
Neurodevelopmental effects
Neurodevelopmental effects
A.A.F.A.
Nonneoplastic lesions of splenic capsule
A. CASA.
Decreased stool quantity, food consumption and body weight gains; hyperirritability (maternal effects)
A.474
A.W.
Moderate/marked fatty cyst formation in the liver and elevated SGPT
intoderace, marked rately cyserormation in the liver and elevated sor i
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, and 40,	
AAA	
Renal tubular epithelial vacuolation	
Kidney, spleen, liver, and bone marrow toxicity	
Decreased body weight	
No effects observed	
A.M.	
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No adverse effects	
A.044	
Body weight depression	
Testicular damage	
Reduced body weight gain preceding pregnancy; reduced body	weight gain in offspring during weaning period
G.I. tract disturbances	
Hematologic effects	
Effects on the lungs, liver, kidney, thyroid and thyroid hormone	s in males and females and eyes of females
Increased kidney body weight ratio	
Tremors	
ChE inhibition, optic nerve degeneration	
And And And	
Changes in body weight and liver weight increased liver weight	of male and female parents; reduced ossification and slig
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Testicular atrophy, liver peliosis, and adrenal cortical de	
Increased mortality	egeneration
Maternal and fetal toxicity	
No adverse effects observed	A-A-A-A-A
No adverse effects observed	
	de-details
Reduced body weight	
Liver lesions	
	AMA
Liver toxicity (fatty change)	
Liver toxicity	
Decreased delayed hypersensitivity response	
Hematologic, hepatic and renal toxicity	
Myocardial degeneration, hepatotoxicity and nephroto	xicity
Chronic irritation	
Plasma and RBC ChE inhibition in males and females; b	rain ChE inhibition in males
Liver lesions	
	A-MAX
Decreased body weight	
Methemoglobin and sulfhemoglobin formation	
Increased absolute and relative liver weight	
Brain ChE inhibition	
Chronic kidney inflammation	
Clinical signs (lotharmy prostration and abovia) and have	
Clinical signs (lethargy, prostration, and ataxia) and her	namnRicai chanRes

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Neurotoxicity, Heinz bodies and biliary tract hyperplasia	
	•
Decreased fetal weight	
Liver and kidney toxicity	
Liver toxicity	• 1.
Decreased body weight gain, and increased liver and kidney	weights
Minimal long appoint and actorists	*
Minimal lens opacity and cataracts ChE inhibition, optic nerve degeneration	
Che initiation, optic herve degeneration	
Abnormal pigments in blood	
Thyroid toxicity	
Reduced body weight gain in males and females; increased in	ocidence of marked progressive glomerulonephrosis and blo
Increased absolute and relative weights of stomach and sma	
Mild histological lesions in liver, occasional convulsions	
	<u> </u>
Plasma ChE inhibition	
Plasma cholinesterase inhibition	
AM	w.
Degenerative cardiomyopathy	
A. A.	
Kidney toxicity	
Hemosiderin deposition in the liver	
Increased incidence of thyroid hyperplasia	
Vide and demonstrate and made and life and a	•
Kidney damage and reduced lifespan	
Elevated serum bilirubin and AST levels, increased urinary vo ChE inhibition	iune
No adverse effects	
INO BUYELSE CHECUS	
Objectionable dental fluorosis, a cosmetic effect	
Glomerulonephritis, atrophic testes, eye keratitis; decreased	hody weight and organ weights
Increased incidence of hepatocellular changes including fatty	
increased incidence of nepatocential changes inciding fatty	change and vacuolation (ivi), increased susceptibility to stre

Decreased body weight and body weight gains in both doses; increased liver weights at high dose	
Decreases in body weight gain; increase in plantar ulcer (females)	
Decreased body weight gain, altered serum chemistry parameters	
Cholinesterase inhibition, cholinergic symptoms, and increased liver weight	
Reduced weight gain, histopathology in rats	
Slight testicular degeneration	
AAN	
AAU	
AMU.	
Increased incidence of renal tubular dilation in F3b offspring	
Reduced relative kidney weights in F0, F1, and F2b adults; reduced fertility in the F1/F2b generation	
Reduced body weight gains in males, reduced serum sodium in males and females	
Liver weight increases in males	
Increased liver-to-body weight ratio in both males and females	
Liver effects	
and theeta	
	***************************************
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Inflammation of the agestate	
Inflammation of the prostate	
Annual condition of the provision and provision	
Axonal swelling of the peripheral nerve	
Decreased body weight	
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	***************************************
Decreased body weight gain	
Decreased body weight gain, skeletal myopathy, slight anemia, bone marrow hyperplasia, elevated serum SGOT, S	GPT, C

Increased RBC Heinz bodies; decreased prostate weight	
Increased BUN; decreased serum AP and AST; decrease	d food consumption efficiency; increased heart/body weight
Increased absolute and relative liver weight; hepatocyto	omegaly in males
	AA4.
Abnormal blood pigment	
Liver effects	
RBC ChE depression  No adverse effects	
Renal dysfunction	
menai dystanction	
CNS effects	
	A-4-4
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Increased serum alkaline phosphatase levels and increa	sed liver-to-brain weight ratio
ChE inhibition	
Liver toxicity Kidney and spleen pathology	
Excessive loss of litters	
EXCESSIVE 1033 OF IEEE 13	
	***
Decreased pup body weight	
None	
RBC, ChE inhibition; reduced hemoglobin, hematocrit a	nd RBCs
	***
Walana and the same of the	A.400
Kidney and liver toxicity	
Dovolonmental neuroneychological impoirment	
Developmental neuropsychological impairment Pulmonary alveolar proteinosis	
Trainfoliary alveolar proteinosis	

Donnard body wainh activ
Decreased body weight gain Liver and kidney effects, decreased body weight, mortality
Liver cytomegaly, fatty metamorphosis, angiectasis; thyroid cystic follicles Reproductive toxicity
Increased uric acid levels
No observed effects
Brain ChE inhibition
Diani Che minipidon
Decreased body weight gain in parental animals and pups
, a.
Decreased body and organ weights
Early clinical signs of methemoglobinemia in excess of 10% (0-3 months old infants formula)
Methemoglobinemia
A.V.A.
ANOVA.
Liver and thyroid effects
Liver cell enlargement
Increases in serum cholesterol, alkaline phosphatase, and relative liver and kidney weights, and decreases in alanine tra
Increased levels of serum proteins and increased liver weights  Decreased body weight gain and food consumption
Increased absolute liver weight and nonneoplastic lesions
increased absolute liver weight and normeophastic lesions
Chronic pneumonitis
Increase in serum alkaline phosphatase and liver weight, and hepatic lesions

2.000	
Liver toxicity	
Hepatotoxicity	
Radioactive iodide uptake inhibition (RAIU) in the thyroid	
Increased liver weights	
No adverse effects	
Decreased maternal weight gain	
Renal damage	
Reduced body weight (males), liver cell vacuolation, cholinesterase inhibition	
Body weight and clinical parameters	
Eung and kidney histopathology	
Increased liver weights	
Transient plasma ChE depression	
Increase in SAP and liver weights, liver histopathology	
mercase in the and river weights, river instopationogy	
Liver and kidney degeneration and bone marrow atrophy	
No effects	
Increased relative spleen weight in females	
No adverse effects observed at the HDT	
Reduced body weight gain; increased resorption, reduced body weight, delayed ossification (maternal and fetal)	
Decrease in body weight	
Gastric mucosal irritation	
Gastric mucosar imitation	
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Decreased packed cell volume, hemoglobin, erythrocytes in females Neurological dysfunction	
Addition	
No odvinino officiale romouted	
No adverse effects reported	

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Reproductive toxicity
Reduced pup weight
Hypertrophy of adrenal cortex (both sexes); hematologic effects (males)
Clinical selenosis
Clinical selenosis
AAAA
Mild anemia in males
Argyria
No observed effects
Reduction in weight gains; hematological changes in females
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A.W.X.
A.444.
A.W.X.
Rachitic bone
A.VII.
A.VII.
Testicular atrophy
Depressed body weight gain in F1 females
Increase in thyroid/body weight ratio; slight increase in liver weights; elevated alkaline phosphatase
Hematologic effects in females
A-745.
#N/A
Mineralization of the kidneys in males, hepatic clear cell change in females
Increased relative liver weight in rats
Neurotoxicity (reaction time, cognitive effects)
Reduced body weight gain, increased liver and kidney weights, and RBC ChE inhibition
#N/A
#N/A
#N/A
#N/A
#N/A

AAAAA.
Decrease in body weight, increase in BUN
Decreased body weight, decreased spermatogenesis, and histological evidence of hyperthyroidism
Neurotoxicity
Decreased body weight gain in males; increased food and water consumption in males and females
Increased hemosiderin deposition, serum alkaline phosphatase, and liver weight in females
Centrilobular hepatocytomegaly in males
Immunosuppression
Psychomotor impairment Hepatocellular necrosis
nepatocellulai fiecrosis
A.W.G.
Reduced body weight
A-44-44
AAAA.
Decreased thymus weight in female B6C3F1 mice (adult immunological effects)
Decreased plaque-forming cell (PFC) response, increased delayed-type hypersensitivity in B6C3F1 mice (development Im
Increased fetal cardiac malformations in Sprague-Dawley rats (heart malformations)
Survival and histopathology
Histopathological changes in liver
Increased urinary coproporphyrins
Increased absolute liver weight in male rats
Decreased fertility index and depressed body weight of dams
Increased liver weights; increase in methemoglobin
increased liver weights, increase in methemoglobin
Methemoglobinemia and spleen-erythroid cell hyperplasia
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Initial body weight loss; moderate nephrotoxicity
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Decreased hair cystine			
	and the		
Organ weight changes			
	and the		
	and the		
Liver cell polymorphism			
Increased prothrombin time			
Parturition mortality; forelimb hair loss			
Decreased body weight, increased mortality			
Decreases in erythrocyte Cu, Zn-superoxide d	ismutase (ESOD) activity in hea	olthy adult male and fem	ale volunteers
No observed effects			
	strate fish		
Thyroid hyperplasia			

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Note	Value	Disc'd	DB conf	Note	Combined	Other
	3	Υ			None	None
Dur not factor	1	N	High	high DB conf	None	None
Chron study/CE	1	N	High	high DB conf	None	None
	10	Υ				None
	3	Υ			None	None
Chron study/CE	?	N	Medium	med DB conf	None	None
Chron study/CE	1	Υ	High		None	None
Chron study/CE	1	Υ	Med/High		None	None
Lifestage effect	1	Υ	High		None	None
Chron study/CE	1	N	High	high DB conf	None	None
Lifestage effect	?	N	Medium	med DB conf	None	None
Dur not factor	?	N	Medium	med DB conf	None	None
Chron study/CE	?	N	Medium	med DB conf	None	None
Chron study/CE	?	N	Medium	med DB conf	None	None
Chron study/CE	1	N	High	high DB conf	None	None
	?	N	Low	low DB conf	None	None
Chron study/CE	?	N	Medium	med DB conf	None	None
	1	N	High	high DB conf	None	None
	?	N	Low	low DB conf	None	None
Chron study/CE	?	Ν	Medium	med DB conf	None	None
Subchron	10	Υ			None	None
	С	Υ			30 (Subch, DB)	None
Chron study/CE	?	N	Low	low DB conf	None	None
Chron study/CE	1	N	High	high DB conf	None	None

W-24-12	3	Υ		A 100 au	None	None
	?	N	Medium	med DB conf	None	None
Chron study/CE	C	Y		mca DD com	3 (Intra, DB)	None
CHIOH 3tddy/CL					3 (IIIII a, DD)	None
	20.00	NA 14-144			M 100 Ab	
Chron study/CE	1	N	High	high DB conf	None	None
Chron study/CE	?	N	Medium	med DB conf	None	None
Chron study/CE	1	N	High	high DB conf	None	None
Lifestage effect	1	N	High	high DB conf	None	3
Lifestage effect				IIIBII DD COIII	None	
Chron study/CE	3	Υ			None	None
Chilon study/CL					None	None
Subchron	?	N	Medium	med DB conf	None	None
Chron study/CE	1	N	High	high DB conf	None	None
Chron study/CE	1	N	High	high DB conf	None	None
Chron study/CE	?	N	Medium	med DB conf	None	None
	1			high DB conf	None	None
Lifestage effect	1	N V	High Medium			<del> </del>
Chron study/CE		Y	Medium		None	None
W. A.S. N.	?				None	None
90,000.00		N	Low	low DB conf	None	None
Character A. ICE	3	Y	Medium	med DB conf	None	3 Nana
Chron study/CE		N			None	None
***		****		~~~		
		*****				<del> </del>
Character A. ICE	3	N.	B. 4		None	None
Chron study/CE	?	N	Medium	med DB conf	None	None
****						
Characteristic /CE				N 100 M	N.L.	NI
Chron study/CE	3	Y			None	None
Chron study/CE	10	Y		1:155	None	None
Chron study/CE	1	N	High	high DB conf	None	None
Chron study/CE	?	N	Low	low DB conf	None	None
Chron study/CE	10	Y	, A. A. A.	10 10 10 10 10 10 10 10 10 10 10 10 10 1	None	None
		~~~				
					~ ~ ~	
W. A. W.				1:155		
SubC v LtoN	1	N	High	high DB conf	None	None
Lifestage effect	1	N	High	high DB conf	None	None
Chron study/CE	3	Υ	~~~	***	None	None
				No. 100. 100.		
<chron rfv<="" td=""><td>10</td><td>Y</td><td>~~~</td><td></td><td>None</td><td>None</td></chron>	10	Y	~~~		None	None
	10	Y			None	None
			A- A- N-	14 14 14 14 14 14 14 14 14 14 14 14 14 1		
Chron study/CE	С	Υ	~~~		10 (LtN, DB)	None

W. 44 W	?	N	Medium	med DB conf	None	None
	?	N	Medium	med DB conf	None	None
			WCGIGIII	IIICA DO COM	NONC	TVOTIC
Chron study/CE	3	Υ	w.w.	M 100 AV	None	None
Chron study/CE	3	Y			None	None
			A-A-A-A	54 544 544	NONC.	140110
	?	N	Low	low DB conf	None	None
W. 44 W	?	N	Low	low DB conf	None	None
Chron study/CE	1	N	High	high DB conf	None	None
				8		
Chron study/CE	10	Υ	an an ta	NA NA MA	None	None
Chron study/CE	1	N	High	high DB conf	None	None
Chron study/CE	1	N	High	high DB conf	None	None
Lifestage effect	1	N	High	high DB conf	None	None
Chron study/CE	1	N	High	high DB conf	None	None
Chron study/CE	1	N	High	high DB conf	None	None
Chron study/CE	?	N	Medium	med DB conf	None	None
Chron study/CE	1	N	High	high DB conf	None	None
Lifestage effect	?	N	Medium	med DB conf	None	None
	3	Υ			None	None
104 104 14	A1 54 A1			NA NA MA	NA HALAA	
Chron study/CE	1	N	High	high DB conf	None	None
Chron study/CE	1	N	High	high DB conf	None	None
					**************************************	~~~
Chron study/CE	1	Υ	High		None	None
Chron study/CE	?	N	Medium	med DB conf	None	None
Chron study/CE	3	Υ			None	None
Chron study/CE	3	Υ	AL AND THE	to the sale	None	None
Chron study/CE	3	Υ	~~~	***	None	None
Chron study/CE	1	Υ	Medium		None	None
Chron study/CE	?	N	Medium	med DB conf	None	None
Lifestage effect	1	N	High	high DB conf	None	None
Lifestage effect	1	N	High	high DB conf	None	None
~~~					~~~	
W. W. W.	A4 50, A4		a area.		No. 100. 200	
Chron study/CE	3	Υ			None	None
	?	N	Medium	med DB conf	None	None
Lifestage effect	3	Υ	A- A- A-	NA 104 104	None	None
						~~~
the sale to				N (A) (A)	N 02. 32	
					N 10. A	~~~
	~~~					~~~
Chron study/CE	1	Υ	Medium	N 100 00	None	None
			~~~			~~~

	3	Υ			None	None
No. 444 NO	7	N	Low	low DB conf	None	None
				w w. w.	w w. w.	
NA AN AN		20.000	e-20-10	94 194 194	N 100 MA	A - 44 - 44
		~ ~ ~		~~~		
Chron study/CE	?	N	Medium	med DB conf	None	None
	?	N	Low	low DB conf	None	None
Chron study/CE	3	Υ			None	None
			~~~	***		
Chron study/CE	1	N	High	high DB conf	None	None
Chron study/CE	?	N	Low	low DB conf	None	None
	?	N	Low	low DB conf	None	None
100 AM M	A4 44. A.	No. 10-10		00 Vil. 00		
	AC 50. AC					
			acas ac	~ ~ ~	~~~	
50 JAN 50	A4 50 Av	W. A. W.	acaesa.	NA ONLOGO	NA NA JAA	JAN 84 100
					~~~	
na sa a	?	N	Medium	med DB conf	None	None
00 AN M	A4 50 A1		acas sa	No. com.	No. co.c.	
100 JAN 100	3	Υ	A- A- 14	ne ne ne	None	None
				~~~		
744 JAA A4	.00.00		and the	na na una	An and store	
				~~~		
Chron study/CE	?	N	Medium	med DB conf	None	None
v		W. AW		N 14. A	w.w.	
Chron study/CE	?	N	Medium	med DB conf	None	None
Chron study/CE	1	N	High	high DB conf	None	None
Chron study/CE	1	N	High	high DB conf	None	None
Chron study/CE	1	N	High	high DB conf	None	None
Dur not factor	1	Υ	High		None	None
Chron study/CE	1	N	High	high DB conf	None	None
Chron study/CE	3	Υ			None	None
Chron study/CE	1	N	High	high DB conf	None	None
30,300 50	1	Υ	Medium	N 100 A	None	None
Chron study/CE	?	N	Low	low DB conf	None	None
	?	N	Medium	med DB conf	10 (LtN, Subch)	None
Chron study/CE	3	Υ			None	None
				~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	***************************************	
100 JAN 100	and the later	No. of the	as Artis	NA TAN-JAN-	NA TAN JAN	JAN 101 CA.
			**************************************		***************************************	
24, 20 %	and the late	No. alexan	a. as to	NA TAN-JAN	NA TORA JOAN	
		<b></b>	2020	~~~	~~~	
	A4.44. Av		~~~			
W. W. W.	?	N	Low	low DB conf	None	None
				low DB conf med DB conf	None None	None None

					~~~	
Chron study/CE	10	Υ			None	None
Comb w DB	?	Y	Low	Comb v Sep	7	None
Lifestage effect	1	N	High	high DB conf	None	None
Life stage circut	3	Y	111511	INGII DO COIII	None	None
Chron study/CE	10	Y			None	None
CHIOH 3tddy/CL	10			the first size.	None	NOTIC
						200
N. 40 W	20.00			W 30.00	w	AL 14 (A)
Chron study/CE	?	N	Medium	med DB conf	None	None
CIII OII 3tuuy, CE	•		Wearan	IIICU DD COIII	None	TYONC
20.00.00	20.00	20.00	0.000	94 94 an	M 100 JA	JAN 101 100
Dur not factor	?	N	Medium	med DB conf	None	None
			· · · · ·			TTOTIC
w.w.			~~~	****	ww.w	
	3	Υ			None	None
100.000.00	3	Y	a-a-a	84 NO. 104	None	None
Chron study/CE	1	Y	Medium		None	None
Chron study/CE	3	Y		and and	None	None
Chron study/CE	?	N	Low	low DB conf	None	None
	?	N	Low	low DB conf	None	None
Dur not factor	?	N	Medium	med DB conf	None	None
Comb w DB	30?	Υ	low	Comb v Sep	7	None
Chron study/CE	1	Υ	High		None	None
Chron study/CE	?	N	Medium	med DB conf	None	None
Chron study/CE	?	N	Medium	med DB conf	None	None
04.044.04	A7 NA A4		al ala ta	NF NF NF	N 100 JA	A 44 A
	?	N	Low	low DB conf	None	None
50 and 60	And the sales	No. 100 Au	a. a. a.	NA SALVANA	No. 100. Add	JAN 64 64
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Chron study/CE	3	Υ	A-A-A-	N. 100 MA	None	None
Chron study/CE	1	N	High	high DB conf	None	None
10.00.00	A4 84. Av.			****	that solar	JAN AN ANA
	?	N	Low	low DB conf	None	None
Chron study/CE	1	N	High	high DB conf	None	None
Chron study/CE	3	Υ		***	None	None
				••••••••••••••••••••••••••••••••••••••	***************************************	
104 104 14	Ad the store	na strate	er er se	** 141.00*	NA TAY JAA	JAN 101 NA
Chron study/CE	?	N	Low	low DB conf	None	None
				N 100 100	NA 144 AN	
· · · · ·	?	N	Low	low DB conf	None	None
······································					***************************************	200
144,144.14	A4 A4 A4	N. N. N.	w. m. m.	A4 104 104	the sale she	,000 to 100
Comb w DB	30?	Υ	low	Comb v Sep	?	None
						L

<b></b>						
	?	N	Low	low DB conf	None	None
nes une nu	?	N	Low	low DB conf	None	None
~~~	?	N	Low	low DB conf	None	None
W. 200 M	3	Υ	an and the	w w. w.	None	None
00.000.00	A 44 A	20.00	yan dan kas	44 A4 A4	64 04 JA	~~~
~~~	?	N	Low	low DB conf	None	None
Chron study/CE	1	N	High	high DB conf	None	None
Chron study/CE	?	N	Low	low DB conf	None	None
Chron study/CE	3	Υ		***	None	None
Chron study/CE	?	N	Medium	med DB conf	None	None
Chron study/CE	3	N	Medium	med DB conf	None	None
						740110
Chron study/CE	?	N	Medium	med DB conf	None	None
Chron study/CE	?	N	Medium	med DB conf	None	None
CITION 3COOY/CL	c	Y	WEGIGITI	IIICO DO CON	10 (Subch, DB)	None
Chron study/CE	3	Y	2000	W W W	None	None
Chron study/CE	3	Y			None	None
	?					ļ
Chron study/CE		N	Medium	med DB conf	None	None
Chron study/CE	?	N	Medium	med DB conf	None	None
Chron study/CE	?	N	Medium	med DB conf	None	None
90,900.00			ACAM MA	64 NA (64	N N N	
0.000				ww	*****	
Subchron	?	N	Medium	med DB conf	None	None
Dur not factor	3	N	Medium	med DB conf	None	10
100 and 100			oto dall'inte	64 Ad. da	NJ 104-304	
*******	?	N	Low	low DB conf	None	None
			~~~	~~~	~~~	
10.00.00	20.00	50, 50-00	A- A4 M	84 NA 984	14 144 144	
Chron study/CE	?	N	Medium	med DB conf	None	None
	3	Υ		NA COLUMN	None	None
0.00	3	N	Medium	med DB conf	None	None
	?	N	Low	low DB conf	None	None
nga papa nga	***	****	A A A	NA NA JAA	N.F. (N.E. ) (N.E. )	
Chron study/CE	1	N	High	high DB conf	None	None
Chron study/CE	1	Υ	Medium/High	NA NAVANA	None	None
Chron study/CE	3	Υ			None	None
		NA 24 24		w w. w.	No. of Sales	
Chron study/CE	?	N	Low	low DB conf	None	None
Chron study/CE	1	N	High	high DB conf	None	None
Chron study/CE	1	N	High	high DB conf	None	None
Chron study/CE	10	Υ			None	None
·	С	Υ		N 100 A	30 (Subch, DB)	None
	3	Y	***	64 50 50 5	None	None
Lifestage effect	1	N	High	high DB conf	None	None
Chron study/CE	1	N	High	high DB conf	None	None
Chron study/CE	1	N	High	high DB conf	None	None
Comon seday, CE	L *	L '*	111511	Bi. DD coill	HOHE	140116

Chron study/CE         1         N         High         high DB conf         None         No           Chron study/CE         1         N         High         high DB conf         None         No           Chron study/CE         ?         N         Medium         med DB conf         None         No           Chron study/CE         ?         N         Medium         med DB conf         None         No           Chron study/CE         1         N         High         high DB conf         None         No           Chron study/CE         1         N         Low         low DB conf         None         No            2         N         Medium         med DB conf         None         No            3         Y          None         No         No           Chron study/CE         1         N         High DB conf         None         No           Chron study/CE         1         N         High DB conf         None         No            2         N         Medium         med DB conf         None         No            2         N         Low         low DB conf			T				
Chron study/CE         1         N         High         high DB conf         None         No           Chron study/CE         ?         N         Medium         med DB conf         None         No           Chron study/CE         ?         N         High         high DB conf         None         No           Chron study/CE         1         N         High         high DB conf         None         No           Chron study/CE         1         N         High         high DB conf         None         No            2         N         Low         low DB conf         None         No            3         Y          No         No         No            3         Y          No         No         No         No           Chron study/CE         1         N         High         high DB conf         None         No           Chron study/CE         3         Y          No         No         No         No         No            10         Y          No         No         No         No         No         No         No <td>Chron study/CE</td> <td>?</td> <td>N</td> <td>Medium</td> <td>med DB conf</td> <td>None</td> <td>None</td>	Chron study/CE	?	N	Medium	med DB conf	None	None
Chron study/CE ? N Medium med DB conf None No Chron study/CE ? N Medium med DB conf None No Chron study/CE 1 N High high DB conf None No	Chron study/CE	1	N	High	high DB conf	None	None
Chron study/CE ? N Medium med DB conf None No Chron study/CE ? N Medium med DB conf None No	Chron study/CE	1	N	High	high DB conf	None	None
Chron study/CE         ?         N         Medium         med DB conf         None         No           Chron study/CE         1         N         High         high DB conf         None         No	·			~~~		~~~	
Chron study/CE         ?         N         Medium         med DB conf         None         No           Chron study/CE         1         N         High         high DB conf         None         No	Chron study/CE	?	N	Medium	med DB conf	None	None
Chron study/CE 1 N High high DB conf None No							None
Chron study/CE				4.415	N 10 - 0	TVOTIC	770770
Part	Chron study/CE		M	Uiah	high DR conf	None	None
None	CITION SEGUY/CE						None
None							
10   Y   None			I IV	LOW	IOM DE COIII	none	None
None			22.2				
Lifestage effect 1 N High high DB conf None No Chron study/CE 1 N High high DB conf None No Chron study/CE 3 Y N High high DB conf None No Chron study/CE 2 N Medium med DB conf None No Chron study/CE 1 N High high DB conf None No Chron study/CE 2 N Medium med DB conf None No Chron study/CE 1 N High high DB conf None No Chron study/CE 1 N High high DB conf None No Chron study/CE 1 N Medium med DB conf None No Chron study/CE 1 N Medium med DB conf None No Chron study/CE 1 N Medium med DB conf None No Chron study/CE 1 N Medium med DB conf None No Chron study/CE 1 N Medium med DB conf None No Chron study/CE 1 N Medium med DB conf None No Chron study/CE 1 N Medium med DB conf None No Chron study/CE 1 N Medium med DB conf None No Chron study/CE 1 N Medium med DB conf None No Chron study/CE 1 N Medium med DB conf None No Chron study/CE 1 N Medium med DB conf None No Chron study/CE 1 N Medium med DB conf None No Chron study/CE 1 N Medium med DB conf None No Chron study/CE 1 N Medium med DB conf None No Chron study/CE 3 Y Medium None No Chron study/CE 3	W-W-M			Medium	med DB conf		None
Chron study/CE 1 N High high DB conf None No Chron study/CE 3 Y N Hodium med DB conf None No Chron study/CE ? N Medium med DB conf None No Chron study/CE ? N High high DB conf None No Chron study/CE ? N Medium med DB conf None No Chron study/CE 1 N High high DB conf None No Chron study/CE 1 N High high DB conf None No Chron study/CE 1 N Medium med DB conf None No Chron study/CE 1 N Medium med DB conf None No Chron study/CE 1 N Medium med DB conf None No Chron study/CE 1 N Medium med DB conf None No Chron study/CE 1 N Medium med DB conf None No Chron study/CE 1 N Medium med DB conf None No Chron study/CE 1 N Medium med DB conf None No Chron study/CE 1 N Medium med DB conf None No Chron study/CE 1 N Medium med DB conf None No Chron study/CE 1 N Medium med DB conf None No Chron study/CE 1 N Medium med DB conf None No Chron study/CE 1 N Medium med DB conf None No Chron study/CE 1 N Medium Med DB conf None No Chron study/CE 1 N Medium Med DB conf None No Chron study/CE 1 N Medium Med DB conf None No Chron study/CE 1 N Medium Med DB conf None No Chron study/CE 1 N Medium Med DB conf None No Chron study/CE 1 N Medium Med DB conf None No Chron study/CE 1 N Medium Med DB conf None No Chron study/CE 1 N Medium Med DB conf None No Chron study/CE 1 N Medium Med DB conf None No Chron study/CE 1 N Medium Med DB conf None No Chron study/CE 1 N Medium Med DB conf None No Chron study/CE 1 N Medium Med DB conf None No Chron study/CE 1 N Medium Med DB conf None No Chron study/CE 1 N Medium Med DB conf None No Chron study/CE 1 N Medium Med DB conf None No Chron study/CE 1 N Medium Med DB conf None No Chron study/CE 1 N Medium Medium Med DB conf None No Chron study/CE 1 N Medium Me			Υ				None
Chron study/CE	L		N				None
Chron study/CE         3         Y          None			N	High			None
Chron study/CE   N   Medium   med DB conf   None	Chron study/CE	1	N	High	high DB conf	None	None
None	Chron study/CE	3	Υ	standar teta	54 544 MA	None	None
None	Chron study/CE	3	N	Medium	med DB conf	None	None
10	100,000,000	State State State	No. of Contract	an an tan	No. 100. 100.	And the same	John Ball Cole
None   No   None		?	N	Low	low DB conf	None	None
Chron study/CE 1 N High high DB conf None No						N 100 M	
None   No   No   None   No   None   No   None   No   None   No   None   No		10	Υ	20-20-20		None	None
None   No   No   None   No   None   No   None   No   None   No   None   No	Chron study/CE	1	N	High	high DB conf	None	None
None	00.000.00			an de las		Part today plan	
None	**************************************			~~~	~~~	~~~	
None					M 144 AA		
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None							
3	the skill be	)	N	Madium	med DB conf		None
3 Y	***************************************		<del> </del>	Wicalain	Inca DB com		- None
3	***************************************	ļ	ļ	•			
None	***************************************	<b></b>	<b></b>		***************************************		
None   No   None	***************************************		ļ	<b></b>			N
Chron study/CE         1         N         High         high DB conf         None         No           Chron study/CE         10         Y          None         No           Chron study/CE         3         Y          None         No            3         Y          None         No            3         Y          None         No            3         Y          No           No	****						None
Chron study/CE 10 Y None No Chron study/CE 3 Y None No  3 Y None No							None
Chron study/CE 10 Y None No Chron study/CE 3 Y None No 3 Y None No 3 Y None No	Chron study/CE	1	N	High	high DB conf		None
Chron study/CE         10         Y          None         No           Chron study/CE         3         Y          None         No            3         Y          None         No            3         Y          None         No			*****		** ***********************************	tot solv solv	
Chron study/CE 3 Y None No				~~~			
3 Y None No		<b></b>	<b></b>	A A A	No. 100. 200		None
3 Y None No	Chron study/CE	3	Y	****	*****	None	None
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	94.94.44	3	Υ	A A 14	4444	None	None
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	144 344 144				the tree state	na na saa	
	****					0.00	
Chron study/CE ? N Medium med DB conf None No	Chron study/CE	?	N	Medium	med DB conf	None	None
Chron study/CE 1 N High high DB conf		1	N	High	high DB conf		
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			***************************************			
Chron study/CE	1	N	High	high DB conf	None	None
500 SAR 500	?	N	Low	low DB conf	None	None
	3	N	Low	low DB conf	None	None
	?	N	Low	low DB conf	None	None
w.w.	3	Υ	W-24-14	W 90.00	None	None
Chron study/CE	1	N	High	high DB conf	None	None
Chron study/CE	1	N	High	high DB conf	None	None
	-		,,,,		110110	
Chron study/CE	1	N	High	high DB conf	None	None
Chron study/CE	1	N	High	high DB conf	None	None
	?					
Subchron		N	Medium	med DB conf	None	None
Chron study/CE	?	N	Medium	med DB conf	None	None
Chron study/CE	3	N	Medium	med DB conf	None	None
	?	N	Low	low DB conf	None	None
Chron study/CE	?	N	Medium	med DB conf	None	None
****	С	Υ	on an inc	AZ 100 JAA	10 (Subch, DB)	None
	1	N	High	high DB conf	10 (Intra, Inter)	None
	and the same		and the	ne ne ne	ne neu una	
	3	Υ		***	None	None
not and the	3	Υ	as as sa	NA CALLAN	None	None
Dur not factor	1	N	High	high DB conf	None	None
	3	Υ			None	None
Chron study/CE	?	N	Medium	med DB conf	None	None
	?	N	Low	low DB conf	None	None
Chron study/CE	1	N	High	high DB conf	None	None
Chron study/CE	1	N	High	high DB conf	None	None
Lifestage effect	10	Υ			None	None
Litestage circut		20.000		94 94 see	110110	
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			•		***************************************	
***************************************	33.55.55		40 AP 14	NA 144-144	N N N	
1:51	10	····	~~~	******	NI	NI
Lifestage effect	10	Υ			None	None
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	****		~~~	~~~	~~~	~~~
10 Add 10	34 55 35			N 100 M	na na sa	
Chron study/CE	3	Υ		****	None	None
Chron study/CE	3	N	Medium	med DB conf	None	None
100 00 10		****	w.w.	42 142 442	N. N. N. N.	
	С	Υ			10 (Subch, DB)	None
10.00	3	Υ	oto del tra	na na saa	None	None
Chron study/CE	3	Υ	~~~	~~~	None	None
	A 44 A	NA 2612A	as as to	And Code codes	not con-	u.
· · · · ·			~~~	× v. ×	~ ~ ~	
Lifestage effect	1	Υ	High	~~~	None	None
Chron study/CE	10	Υ		nd the same	None	None
	3	N	Medium	med DB conf	None	None
L	l	I	************			

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	?	N	Medium	med DB conf	None	None
100 and 100			atoriale tale	that today share	that take who	
Chron study/CE	1	N	High	high DB conf	None	None
Chron study/CE	?	N	Medium	med DB conf	None	None
Chron study/CE	3	Υ	an de ten	92 SAL AA	None	None
Unk duration	1	Υ	Low		None	None
Chron study/CE	?	N	Medium	med DB conf	None	None
Chron study/CE	1	Υ	Medium		None	None
Chron study/CE	?	N	Medium	med DB conf	None	None
CHIOH Study, CE	3	Y	····		None	None
Chron study/CE	3	Y			None	None
CHIOH Study/CE	<del> </del>				None	None
101.000.00		20.00	yan dari bas	Mar Andrean	64.545	200 AV 120
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St. and to			an an an	Al to the	No tour day	
Chron study/CE	3	Υ	~~~	***	None	None
Lifestage effect	1	N	High	high DB conf	None	None
Lifestage effect	1	N	High	high DB conf	None	None
	3	Υ			None	None
~~~			www.	w.w.	w	
90.000	3	Υ			None	None
100 100 101	20.00	20.00	A - A - A - A -	N 100 AN	147 144 144	JAN 101 101
			~~~	•••••		
					N 10 20	
		20.000				
		<b></b>				
101.000.00	A1 NA A1	******		N N N N		
	~~~	***	~~~			
	364 866 360				44 44 44	34.44.44
****			~~~			
			20.00			
Dur not factor	1	N	High	high DB conf	None	None
Chron study/CE	3	Υ			None	None
not only the	?	N	Low	low DB conf	None	None
	3	N	Low	low DB conf	None	None
Chron study/CE	1	N	High	high DB conf	None	None
Chron study/CE	?	N	Medium	med DB conf	None	None
Chron study/CE	?	N	Medium	med DB conf	None	None
Chron study/CE	1	N	High	high DB conf	None	None
	?	N	Medium	med DB conf	None	None
Chron study/CE	1	N	High	high DB conf	None	None
Cin Oir Study/ CE			111511	ingii da com	NOTIC	140116
Chron study/CE	3	Y			None	None
	3			low DB conf		None
100.000.00		N	Low		None	None
~~~	10	Υ			None	None

	7			I bo a	N	TN
		N	Low	low DB conf	None	None
Chron study/CE	3	Y			None	None
Chron study/CE	1	Υ	High		None	None
90,000.00	20.00	****	A-A-A-	0.000	0.00.00	
Dur not factor	1	Υ	Medium		None	None
Chron study/CE	1	N	High	high DB conf	None	None
					***	
Chron study/CE	?	N	Medium	med DB conf	None	None
Lifestage effect	3	Υ	***	****	None	None
	?	N	Low	low DB conf	None	None
Chron study/CE	?	N	Low	low DB conf	None	None
sal plantes	and the star		ou ou na	NA SALUAA	nor note state	
Chron study/CE	1	N	High	high DB conf	None	None
Chron study/CE	?	N	Medium	med DB conf	None	None
ngan paga nga	***	NA 14-14	W- AP 144	NA NA NA	AP 100 (000	A 14 14
Chron study/CE	?	N	Medium	med DB conf	None	None
Subchron	?	N	Medium	med DB conf	None	None
Subchron	1	N	High	high DB conf	None	2.5
90.00 M	A144.A1	***		w w.w.	W 10.00	Jan 64 106
00,000.00	M.A. A.	20, 20,00	AL PARTE.	44.44	44.54	
		~ ~~				~~~
Chron study/CE	1	N	High	high DB conf	None	None
	?	N	Low	low DB conf	None	None
Chron study/CE	10	Υ	~~~		None	None
Chron study/CE	?	N	Medium	med DB conf	None	None
	?	N	Low	low DB conf	None	None
Chron study/CE	10	Υ	A- A- N-	M 40.00	None	None
Chron study/CE	10	Υ	~~~	~~~	None	None
Lifestage effect	?	N	Medium	med DB conf	None	None
	3	Υ			None	None
Chron study/CE	3	Υ		~~~	None	None
****	3	Υ		****	None	None
Chron study/CE	1	N	High	high DB conf	None	None
on and the		No. 10-10	as and the		No. 100 year	
No code for		****	a. a. ta.	N 100 M	ne se se	
10.00.00			A-A-A-A		***	
					~~~	
100 100 100	A4 A4 A4			N 100 000	98.95.95	JAN 104 100
			×			
Chron study/CE	1	N	High	high DB conf	None	None
Dur not factor	1	N	High	high DB conf	None	None
	3	Y			None	None
144,144,14	7	N	Medium	med DB conf	None	None
Chron study/CE	?	N	Medium	med DB conf	None	None
C. II OII JEGUY/ CE	L .		- madium		IVOIR	1,40116

			~~~	****		
10, 100 10	****		W. A. W.	W 10.00	W W.W	20.00
*****			~~~	****	~~~	
				1:105 5		
Lifestage effect	1	N	High	high DB conf	None	None
Chron study/CE	?	N	Medium	med DB conf	None	None
Chron study/CE	1	N	High	high DB conf	None	None
Chron study/CE	1	N	High	high DB conf	None	None
Chron study/CE	1	N	High	high DB conf	None	None
~~~				***		
		No. Ac. Ac		M M M		
Chron study/CE	1	N	High	high DB conf	None	None
Chron study/CE	?	N	Low	low DB conf	None	None
Chron study/CE	?	N	Low	low DB conf	None	None
Chron study/CE	1	N	High	high DB conf	None	None
101,000.00	?	N	Medium	med DB conf	None	None
non one no	?	N	Medium	med DB conf	None	None
***	3	Υ		***	None	None
Chron study/CE	10	Υ		A 14. A	None	None
W.W.W.	?	N	Low	low DB conf	None	None
	?	N	Medium	med DB conf	None	None
Chron study/CE	1	N	High	high DB conf	None	None
Chron study/CE	1	N	High	high DB conf	None	None
Chron study/CE	?	N	Medium	med DB conf	None	None
Chron study/CE	1	N	High	high DB conf	None	None
100,000.00	10	Υ	A A A	NA 100 JOA	None	None
	?	N	Low	low DB conf	None	None
not and the	and the annual	NA SECON	alle delle falle	that trade white	that make which	and the late.
Dur not factor	1	Υ	High	****	None	None
Chron study/CE	3	Υ		~~~	None	None
<chron rfv<="" td=""><td>3</td><td>Υ</td><td>on one has</td><td>ne ne ver</td><td>None</td><td>None</td></chron>	3	Υ	on one has	ne ne ver	None	None
~~~	3	Υ	~~~		None	None
Chron study/CE	10	Υ	Arc Add NA	84 NA SAA	None	None
***	?	N	Medium	med DB conf	None	None
Chron study/CE	?	N	Medium	med DB conf	None	None
W. W. W.	?	N	Medium	med DB conf	None	None
*****	?	N	Low	low DB conf	None	None
100 and 64	, And Add , 1841	60 de 100	iden died debt.	5,6 100 JAA	AN TAN JAN	
Lifestage effect	10	Υ		000	None	None
W. W. W.				64 GA. AL	AN SALJAN	
W. W. W.	***		***	W W W	W W. W.	
w. or w			ac ac sa	W W. W	**************************************	
90 000 00	20.00	10. de 60	de de ha	NE ON OR	84 144 14A	300 000 000
			200	~~~	*****	~~~
L	L	L	L	L		

W. 44 M	444	M. de de	4440			
Chron study/CE	?	N	Medium	med DB conf	None	None
Chron study/CE	1	N	High	high DB conf	None	None
Chron study/CE	10	Y	111511	IIIBII DO COIII	None	None
CITION SEUGY, CE	3	Y		M 100 m	None	None
			~~~			110110
W. 20 W	and the star	na, acaa	a. a. a.			
Chron study/CE	1	N	High	high DB conf	None	None
Chron study/CE	1	N	High	high DB conf	None	None
Chron study/CE	1	N	High	high DB conf	None	None
	?	N	Low	low DB conf	None	None
the sale for	And the star	No. alexande	a. a. a.	N 10. A	not consider	
***			~~~			
Chron study/CE	1	N	High	high DB conf	None	None
Chron study/CE	?	N	Low	low DB conf	None	None
Chron study/CE	10	Υ			None	None
00 pts 64	?	N	Medium	med DB conf	None	None
na sa na			ac an ex-	N NA 304	60 Sec. Sec.	
94,945.45	***	10.00	ar ar to	*****	44.94.94	A4 14 14
<chron rfv<="" td=""><td>3</td><td>Υ</td><td></td><td></td><td>None</td><td>None</td></chron>	3	Υ			None	None
100 min 64	3	Υ	plan della field	AM SAN JAN	None	None
****	?	N	Medium	med DB conf	None	None
Chron study/CE	1	Υ	High		None	None
Lifestage effect	1	Υ	High		None	None
Lifestage effect	1	Υ	High		None	None
Chron study/CE	?	N	Medium	med DB conf	None	None
	?	N	Low	low DB conf	None	None
10. AA 10.			an an to.	N N N N	NA NA NA	
Chron study/CE	?	N	Medium	med DB conf	None	None
Chron study/CE	3	Υ	as as sa		None	None
<del> </del>	<b>}</b>	ļ		L		
	3	Υ		~~~	None	None
Chron study/CE	3	Y Y				
0.00	3	Y			None None	None None
Chron study/CE	3	Υ			None None	None None
***	3	Y			None None	None None
***	3	Y N	High		None None None	None None None
Chron study/CE	1	Y  N	High	high DB conf	None None None	None None None None None
Chron study/CE	3 1	Y  10 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	High 	high DB conf	None None None None None	None None None
Chron study/CE	3 1   1	Y N N N N	High High	high DB conf  high DB conf  high DB conf	None None None None None	None None None None None
Chron study/CE	3 1 1 1 2	Y N N N N N N N	High High Medium	high DB conf high DB conf high DB conf med DB conf	None None None None None None None	None None None None None None
Chron study/CE  Chron study/CE  Chron study/CE  Chron study/CE	3 1 	Y N N N N N N N N N	High High	high DB conf  high DB conf  high DB conf	None None None None None None None	None None None None None None None
Chron study/CE  Chron study/CE  Chron study/CE  Chron study/CE	1 	Y N N N N N N N N N N N N N N N N N N N	High High Medium Medium	high DB conf high DB conf med DB conf med DB conf	None None None None None None None	None None None None None None None
Chron study/CE  Chron study/CE  Chron study/CE  Chron study/CE	3 1 	Y N N N N N N N N N	High High Medium	high DB conf high DB conf high DB conf med DB conf	None None None None None None None	None None None None None None None

Chron study/CE	?	N	Low	low DB conf	None	None
TOTAL AND	?	N	Low/Medium	lo/md DB conf	None	None
Chron study/CE	1	N	High	high DB conf	None	None
w.w.v	APPROXIM	00.00				
No. alex Ma	ALSO AL	94.464	A- A- A-	N N N	No. 100. 200	300 000
Chron study/CE	1	Υ	Medium/High		None	None
Chron study/CE	?	N	Low	low DB conf	None	None
Chron study/CE	10	Υ			None	None
Chron study/CE	10	Υ			None	None
Chron study/CE	1	Υ	High	***	None	None
Chron study/CE	?	N	Medium	med DB conf	None	None
Total Address Total	?	N	Low	low DB conf	None	None
Chron study/CE	?	N	Medium	med DB conf	None	None

Reference Concentration (RfC)	-		
Substance	RfC?	\$00000000	traspeci
Japanie	111-2.	Value	Disc'd
Acenaphthene	N		
Acenaphthylene	N		
Acephate	N		
Acetaldehyde	Υ	10	Υ
Acetochlor	N		
Acetone	N		
Acetonitrile	Υ	10	Υ
Acetophenone	N		
Acetyl chloride	N		
Acifluorfen, sodium	N		
Acrolein	Y	10	Υ
Acrylamide	Υ	10	Y
Acrylic acid	Υ	10	Υ
Acrylonitrile	Υ	10	Υ
Adiponitrile	N		
Alachlor	N		
Alar	N		
Aldicarb	N		
Aldicarb sulfone	N		
Aldrin	N		
Ally	N		
Allyl alcohol	N		
Allyl chloride	Y	10	Υ
Aluminum phosphide	N		
Amdro	N		
Ametryn	N		
4-Aminopyridine	N		
Amitraz	N		
Ammonia	Υ	10	Υ
Ammonium acetate	N		
Ammonium methacrylate	N		
Ammonium sulfamate	N		
Aniline	Υ	10	Υ
ortho-Anisidine	N		
Anthracene	N		
Antimony	N		
Antimony trioxide	Y	10	Y
Apollo	N		

Aramite	N		
Aroclor 1016	N		Jan to the
Aroclor 1248	N		
Aroclor 1254	N		
Arsenic, inorganic	N	20,000	JAN 100 CA
Arsine	Υ	10	Υ
Asbestos	N	100, 100, 100	
Assure	N		
Asulam	N		
Atrazine	N		
Avermectin B1	N		
Azobenzene	N	10.000	JAN SER SER
Barium and Compounds	N	***	
Barium cyanide	N	100, 300, 100	Jan San Cale
Baygon	N		J. 10 10.
Bayleton	N		A 64 14.
Baythroid	N	101,000.00	Jan to take
Benefin	N		~~~
Benomyl	N	100,000	
Bentazon (Basagran)	N		
Benz[a]anthracene	N		
Benzaldehyde	N		
Benzene	Υ	10	Y
Benzidine	N	10.00	
Benzo[a]pyrene (BaP)	N		
Benzo[b]fluoranthene	N		
Benzo[g,h,i]perylene	N		
Benzo[k]fluoranthene	N		
Benzoic acid	N	10.000	JAN 847 1/41
Benzotrichloride	N		
Benzyl chloride	N	14. 34. 44	Jan 14 (A)
Beryllium and compounds	Υ	1	Υ
Bidrin	N		
Biphenthrin	N	10,000	JAN 108 1A1
1,1-Biphenyl	N		
Bis(2-chloro-1-methylethyl) ether	N	nak yan ka	other today
Bis(2-chloroethoxy)methane	N		
Bis(chloroethyl)ether (BCEE)	N		an na na
Bis(chloromethyl)ether (BCME)	N		
Bisphenol A.	N		
Boron and Compounds	N		
Bromate	N		
Brominated dibenzofurans	N		
Bromobenzene (subchronic)	Υ	10	Υ
Bromobenzene (chronic)	Υ	10	Υ
Bromochloromethane	N		
Bromodichloromethane	N		

p-Bromodiphenyl ether	N	~~~	
Bromoform	N	tota year tot	JAN 10 CAL
Bromomethane	Υ	10	Υ
Bromotrichloromethane	N		
Bromoxynil	N	W. A. W	
Bromoxynil octanoate	N		
1,3-Butadiene	Υ	10	Υ
n-Butanol	N		
Butyl benzyl phthalate	N		
Butylate	N	W. A. W	
t-Butylchloride	N		
Butylphthalyl butylglycolate (BPBG)	N	10.00	.A. 14 1A.
Cacodylic acid	N		
Cadmium (water)	N	14. 34. 14	
Cadmium (food)	N	W. A. W.	
Calcium cyanide	N		
Caprolactam	N	10.00	A 14 1A
Captafol	N		
Captan	N	14. 34. 14	
Carbaryl	N		
Carbofuran	N		
Carbon disulfide	Υ	3	Υ
Carbon tetrachloride	Υ	10	Υ
Carbonyl sulfide	N	10.30.00	
Carbosulfan	N	0.20	
Carboxin	N	14. 34. 14	
Cerium Oxide and Cerium Compounds	Υ	10	Υ
Chloral hydrate	N		
Chloramben	N	14. 34. 14	
Chlordane (Technical)	Υ	10	Υ
Chlordecone (Kepone)	N	14, 30, 14	AL 14 LA.
Chlorimuron-ethyl	N		
Chlorine	N		
Chlorine cyanide	N	14, 14, 14	
Chlorine dioxide	Υ	10	Υ
Chlorite (sodium salt)	N	14, 34, 54	AA 14 1A.
1-Chloro-1,1-difluoroethane	Υ	10	Υ
2-Chloroacetophenone	Υ	10	Υ
p-Chloroaniline	N	141.00 M	A-17-0
Chlorobenzene	N	~~~	
Chlorobenzilate	N	10, 20, 10	
1-Chlorobutane	N		
2-Chlorobutane	N	10.00	
Chlorocyclopentadiene	N		
Chlorodifluoromethane	Y	10	Υ
Chloroform	N	10, 10, 10	
Chloromethyl methyl ether (CMME)	N		

beta-Chloronaphthalene	N		
2-Chlorophenol	N	200, 200, 200	
p-Chlorophenyl methyl sulfide	N		
p-Chlorophenyl methyl sulfone	N		
p-Chlorophenyl methyl sulfoxide	N	10.00 M	
Chloroprene	Υ	10	Υ
Chlorothalonil	N		
o-Chlorotoluene	N		~~~
Chlorpropham	N		
Chlorpyrifos	N		~~~
Chlorsulfuron	N		~~~
Chromium(III), insoluble salts	N	100, 100, 00	
Chromium(VI) - oral			~~~
Chromium(VI) - inhalation/acid mists and aerosols	Υ	10	Υ
Chromium(VI) - inhalation/particulates	Υ	10	Υ
Chrysene	N		
Coke oven emissions	N	100,000,00	
Copper	N		~~~
Copper cyanide	N		
Creosote	N		~~~
Crotonaldehyde	N	100 July 100	
Cumene	Υ	10	Υ
Cyanazine	N		~~~
Cyanide, free	N	100, 100, 000	
Cyanogen	N		
Cyanogen bromide	N		
Cyclohexane	Υ	10	Υ
Cyclohexanone	N		
Cyclohexylamine	N		
Cyhalothrin/Karate	N		~~~
Cypermethrin	N		
Cyromazine	N		~~~
Dacthal	N	~~~	~~~
Dalapon, sodium salt	N	100,000,00	100 to 100
Danitol	N	~~~	~~~
2,2',3,3',4,4',5,5',6,6'-Decabromodiphenyl ether (BDE-209)	N	100, 100, 00	State Ball Code
Demeton	N		
Di (2-ethylhexyl)phthalate (DEHP)	N		~~~
Di(2-ethylhexyl)adipate	N	*****	
2,4-Diaminotoluene	N	~~~	~~~
Diazomethane	N	100, 100, 00	100 to 100
Dibenz[a,h]anthracene	N		
Dibenzofuran	N		
1,2-Dibromo-3-chloropropane (DBCP)	Υ	10	Υ
1,4-Dibromobenzene	N		
Dibromochloromethane	N	10,000	JAN 104 104
Dibromodichloromethane	N		

p,p'-Dibromodiphenyl ether	N	0.00	
1,2-Dibromoethane	Υ	10	Υ
Dibutyl phthalate	N	0.00	
Dicamba	N	100, 200, 100	20.00
Dichloroacetic acid	N	100,000,000	
1,2-Dichlorobenzene	N		
1,3-Dichlorobenzene	N	toda yana dad	AN 14 AN
1,4-Dichlorobenzene	Υ	10	Υ
3,3'-Dichlorobenzidine	N		
Dichlorodifluoromethane	N	20,000	~~~
p,p'-Dichlorodiphenyl dichloroethane (DDD)	N		
p,p'-Dichlorodiphenyldichloroethylene (DDE)	N	1,0,00	,00 Me 100
p,p'-Dichlorodiphenyltrichloroethane (DDT)	N		
1,1-Dichloroethane	N	toda solat tod	and the late.
1,2-Dichloroethane	N	00.000	20.00
cis-1,2-Dichloroethylene	N		
trans-1,2-Dichloroethylene	N	100 000 000	A - M - M
1,1-Dichloroethylene (1,1-DCE)	Υ	10	Υ
Dichloromethane	Υ	3	Υ
2,4-Dichlorophenol	N		
4-(2,4-Dichlorophenoxy)butyric acid (2,4-DB)	N		
2,4-Dichlorophenoxyacetic acid (2,4-D)	N	10.00	A- 14 (A
1,2-Dichloropropane	Υ	10	Υ
2,3-Dichloropropanol	N	1985 9804 898	,0,0 to 0,0,0
1,3-Dichloropropene	Υ	10	Υ
Dichlorvos	Υ	10	Υ
Dicofol	N	10.000	
Dieldrin	N		
Diesel engine exhaust	Υ	10	Υ
Diethyl phthalate	N		
Diethyl sulfate	N	100, 100, 100	
Diethyl-p-nitrophenylphosphate	N		
Diethylene glycol dinitrate (DEGDN)	N		20.00
Difenzoquat	N	14, 14, 14	~~~
Diflubenzuron	N		~~~
1,1-Difluoroethane	Υ	10	Υ
Diisopropyl methylphosphonate (DIMP)	N		~~~
Dimethipin	N		
Dimethoate	N	10, 20, 10	
Dimethyl phthalate	N		
Dimethyl sulfate	N	100 100 100	***
Dimethyl terephthalate (DMT)	N		
Dimethylamine	N		200
N-N-Dimethylaniline	N		
3,3-Dimethylbenzidine	N		
N,N-Dimethylformamide	Y	10	Υ

2,6-Dimethylphenol	N		
3,4-Dimethylphenol	N		A4 64 1A
4,6-Dinitro-o-cyclohexyl phenol	N		
m-Dinitrobenzene	N		
o-Dinitrobenzene	N		A4 14 1A
2,4-Dinitrophenol	N		
2,4-Dinitrotoluene	N	100, 100, 100	
2,4-/2,6-Dinitrotoluene mixture	N		
Dinoseb	N		
1,4-Dioxane	N		
Diphenamid	N		
Diphenylamine	N	10.00.00	JAN SE SAS
1,2-Diphenylhydrazine	N		
Diquat	N		
Disulfoton	N		
1,4-Dithiane	N		
Diuron	N	1985 1884 188	AA 14 1A
Dodine	N		
Endosulfan	N	100, 100, 500	
Endothall	N		
Endrin	N		
Epichlorohydrin	ΤY	10	ΙΥ
1,2-Epoxybutane (EBU)	Υ	10	Y
Ethephon	N	100, 100, 000	
Ethion	N		
2-Ethoxyethanol	Υ	10	Ιγ
Ethyl acetate	N		
Ethyl carbamate	N		
Ethyl chloride	Y	10	Y
S-Ethyl dipropylthiocarbamate (EPTC)	N		
Ethyl ether	N	10.000	
Ethyl p-nitrophenyl phenylphosphorothioate (EPN)	N		
Ethylbenzene	Y	10	Υ
Ethylene diamine	N		
Ethylene glycol	N		
Ethylene glycol monobutyl ether (EGBE) (2-Butoxyethanol)	Y	10	Y
Ethylene thiourea (ETU)	N		
Ethyleneimine	N		
Ethylphthalyl ethylglycolate (EPEG)	N		
Express	N		
Fenamiphos	N	100, 100, 100	
Fluometuron	N		<b></b>
Fluoranthene	N		
Fluorene	N	0,000	
Fluorine (soluble fluoride)	N		
Fluridone	N	1,4, 16,4 6,4	,000 to 100
Flurprimidol	N		<b></b>

Flutolanil	N	0.00	
Fluvalinate	N	toda alban had	JAN 84 144
Folpet	N		
Fomesafen	N		
Fonofos	N	100 100 00	JAN 84 144
Formaldehyde	N		~~~
Formic acid	N	toda sobre disd	JAN 84 144
Fosetyl-al	N		
Furan	N	toda and the	Jan Sal Sal
Furfural	N	100,000,000	
Furmecyclox	N	0.000	
Glufosinate-ammonium	N	1989 1989 1988	JAN 101 101
Glycidaldehyde	N		
Glyphosate	N	tota alka ika	Jan. 84 Cab.
Haloxyfop-methyl	N	00.000	
Harmony	N	100,000,000	~~~
Heptachlor	N	1000 1000 000	JAN 101 100
Heptachlor epoxide	N		
n-Heptane	N	toda artist dell	JAN BAT DA
Hexabromobenzene	N		
Hexabromodiphenyl ether	N		
2,2',4,4',5,5'-Hexabromodiphenyl ether (BDE-153)	N	14, 34, 44	JAN 141 LA
Hexachlorobenzene	N		
Hexachlorobutadiene	N	14, 34, 14	A. W.
alpha-Hexachlorocyclohexane (alpha-HCH)	N		
beta-Hexachlorocyclohexane (beta-HCH)	N		
delta-Hexachlorocyclohexane (delta-HCH)	N	44,444	
epsilon-Hexachlorocyclohexane (epsilon-HC)	N		
gamma-Hexachlorocyclohexane (gamma-HCH)	N	14, 34, 14	A. W.
technical Hexachlorocyclohexane (t-HCH)	N		
Hexachlorocyclopentadiene (HCCPD)	Y	10	Υ
Hexachlorodibenzo-p-dioxin (HxCDD), mixture of 1,2,3,6,7,8-HxCDD and 1,2,3,7,8,9-HxCDD	N		
Hexachloroethane	Y	10	Υ
Hexachlorophene	N	14. 14. 14	JAN 84 144
Hexahydro-1,3,5-trinitro-1,3,5-triazine (RDX)	N		~~~
1,6-Hexamethylene diisocyanate	Y	10	Υ
n-Hexane	Y	10	Υ
2-Hexanone	Y	10	Υ
Hexazinone	N	14, 144 14	
Hydrazine/Hydrazine sulfate	N	~~~	
Hydrogen Cyanide and Cyanide Salts	Y	10	Υ
Hydrogen chloride	Y	10	Υ
Hydrogen sulfide	Υ	10	Υ
Hydroquinone	N		
Imazalil	N		
Imazaquin	N	54,050.54	,00 M M
Indeno[1,2,3-cd]pyrene	l N		

Iprodione	N		
Isobutyl alcohol	N		
Isophorone	N		
Isopropalin	N	00.000.00	
Isopropyl methyl phosphonic acid (IMPA)	N	10,000.00	
Isoxaben	N		
Lactofen	N	10,000	(A) 8/8 (A),
Lead and compounds (inorganic)	N		
d-Limonene	N		
Linuron	N		
Londax	N		
Malathion	N	100,000,00	A
Maleic anhydride	N		
Maleic hydrazide	N	100, 100, 000	
Maneb	N		
Manganese	Υ	10	Υ
Mepiquat chloride	N	10,000	JAN 8,8 VA.
Mercuric chloride (HgCl2)	N		
Mercury, elemental	Υ	С	Υ
Merphos	N		
Merphos oxide	N		
Metalaxyl	N	10,000	
Methacrylonitrile	N		~~~
Methamidophos	N	100,000	
Methanol	N		
Methidathion	N		
Methomyl	N		
Methoxychlor	N		
2-Methoxyethanol	Υ	10	Υ
Methyl acrylate	N		~~~
Methyl chloride	Υ	10	Υ
Methyl chlorocarbonate	N		
Methyl ethyl ketone (MEK)	Υ	10	Υ
Methyl iodide	N	10,000	
Methyl isobutyl ketone (MIBK)	Υ	10	Υ
Methyl isocyanate	N	100, 100, 500	00 to 00.
Methyl methacrylate	Υ	3	Υ
Methyl parathion	N		
Methyl tert-butyl ether (MTBE)	Υ	10	Υ
4-(2-Methyl-4-chlorophenoxy) butyric acid (MCPB)	N		
2-(2-Methyl-4-chlorophenoxy)propionic acid (MCPP)	N		
2-Methyl-4-chlorophenoxyacetic acid (MCPA)	N		
Methylene Diphenyl Diisocyanate (monomeric MDI) and polymeric MDI (PMDI)	Υ	10	Υ
4,4'-Methylene bis(N,N'-dimethyl)aniline	N		
Methylmercury (MeHg)	N		
2-Methylnaphthalene	N		
2-Methylphenol	N		~~~

3-Methylphenol	N		
4-Methylphenol	N	00.000.00	
Metolachlor	N		
Metribuzin	N	00.000.00	
Mirex	N	0.00	
Molinate	N		
Molybdenum	N	100,000,00	
Monochloramine	N		
Naled	N		
Naphthalene	Υ	10	Y
Napropamide	N		
Nickel carbonyl	N	100, 100, 000	AC 20 100
Nickel refinery dust	- N -		
Nickel subsulfide	N		
Nickel, soluble salts	N		
Nitrapyrin	N		
Nitrate	N	100,000,00	
Nitric oxide	N		
Nitrite	N	100,000,00	and the late
Nitrobenzene	Υ	10	Y
Nitrogen dioxide	N	10.000	
Nitroguanidine	N	0.000	
p-Nitrophenol	N		
2-Nitropropane	Υ	10	Υ
N-Nitroso-N-methylethylamine	N		
N-Nitroso-di-n-butylamine	N	0.6 100 64	
N-Nitrosodi-N-propylamine	N		
N-Nitrosodiethanolamine	N	*****	
N-Nitrosodiethylamine	N	10,000	
N-Nitrosodimethylamine	N		
N-Nitrosodiphenylamine	N		
N-Nitrosopyrrolidine	N		
Nonabromodiphenyl ether	N		
Norflurazon	N	10, 100 10	~~~
NuStar	N		
Octabromodiphenyl ether	N		
Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine (HMX)	N		
Oryzalin	N		~~~
Oxadiazon	N		~~~
Oxamyl	N		~~~
Oxyfluorfen	N	14, 164 14	JAN 848 VA.
Paclobutrazol	N		
Paraquat	N		
Parathion	N		
Pendimethalin	N		
Pentabromodiphenyl ether	N	10,000	JAN 14.
2,2',4,4',5-Pentabromodiphenyl ether (BDE-99)	N =		~~~

Pentachlorobenzene	N		
Pentachlorocyclopentadiene	N	100, 200, 500	
Pentachloronitrobenzene (PCNB)	N		
Pentachlorophenol	N		
Pentafluoroethane	N	14, 24, 44	
Perchlorate (CIO4) and Perchlorate Salts	N		
Permethrin	N	100, 200, 500	
Phenanthrene	N		
Phenmedipham	N	note and the	
Phenol	N	00.000	
m-Phenylenediamine	N		
Phenylmercuric acetate	N	100, 100, 50	
Phosalone	N		
Phosgene	Υ	10	Υ
Phosmet	N		
Phosphine	Υ	10	Υ
Phosphoric acid	Υ	10	Υ
Phthalic anhydride	N		
Picloram Picloram	N	10, 30, 10	
Pirimiphos-methyl	N		
Polychlorinated biphenyls (PCBs)	N	N. 20 N	
Potassium cyanide	N	10, 20, 10	
Potassium silver cyanide	N		~~~
Prochloraz	N	14, 34, 14	
Prometon	N		
Prometryn	N		
Pronamide	N		
Propachlor	N		~~~
Propanil	N	14, 24, 44	
Propargite (UF = 1,000)	N		
Propargite (UF = 100)	N	NA 244 NA	
Propargyl alcohol	N		
Propazine	N		<b></b>
Propham	N	14, 34, 44	
Propiconazole	N		<b></b>
beta-Propiolactone	N		
Propionaldehyde	Υ	10	Υ
Propylene glycol	N		
Propylene glycol monoethyl ether	N		~~~
Propylene glycol monomethyl ether (PGME)	Υ	10	Υ
Propylene oxide	Y	10	Y
Propyleneimine	N		
Pursuit	N	NA 200 NA	
Pydrin	N	20.00.00	
Pyrene	N	~~~	
Pyridine	N	25, 25, 55	
Quinalphos	N		

Quinoline	N		
Quinone	N	10, 30, 50	
Radium 226,228	N		
Radon 222	N	00,000	
Refractory ceramic fibers	N	00,000	A4 14 1A
Resmethrin	N		
Rotenone	N	10, 30, 50	A 10 10
Savey	N		
Selenious acid	N	tota atau taa	
Selenium and Compounds	N	0.00	A-17-A
Selenium sulfide	N		
Selenourea	N	100, 100, 500	100 MF 100
Sethoxydim	N		
Silver	N	take allah tak	and the late
Silver cyanide	N		
Simazine	N		
Sodium azide	N	100, 100, 000	JAN 14 CAL
Sodium cyanide	N		
Sodium diethyldithiocarbamate	N	take salah mar	and the rate
Sodium fluoroacetate	N		
Strontium	N	NA SAN NA	and the
Strychnine	N	00,000	A4 14 1A
Styrene	Υ	3	Υ
Systhane	N	taka atau kan	and the sale
Tebuthiuron Tebuthiuron	N		
Terbacil	N		
Terbutryn	 N		
Tetrabromodiphenyl ether	N		
2,2',4,4'-Tetrabromodiphenyl ether (BDE-47)	N	100,000,00	JAN SE SA
1,2,4,5-Tetrachlorobenzene	N		
Tetrachlorocyclopentadiene	N	taka atau kan	JAN 80 100.
2,3,7,8-Tetrachlorodibenzo-p-dioxin	N		
1,1,1,2-Tetrachloroethane	N		
1,1,2,2-Tetrachloroethane (subchronic)	N		A- 14-1A
1,1,2,2-Tetrachloroethane (chronic)	N		
Tetrachloroethylene	Υ	10	Υ
2,3,4,6-Tetrachlorophenol	N		
Tetrachlorovinphos	N		
Tetraethyl lead	N		
Tetraethyldithiopyrophosphate	N		
1,1,1,2-Tetrafluoroethane	Υ	10	Υ
Tetrahydrofuran	Υ	10	Y
Thallium (I), soluble salts	N		
Thallium acetate	N		
Thallium carbonate	N		
Thallium chloride	N	100,000.00	,000 to 0.00
Thallium nitrate	N		

Thallium oxide	N		
Thallium selenite	N	N. M. M.	
Thallium(I) sulfate	N		
Thiobencarb	N		
Thiophanate-methyl	N	10.00	,a
Thiram	N		
Toluene	Υ	10	Υ
2,4-/2,6-Toluene diisocyanate mixture (TDI)	Υ	10	Υ
Toxaphene	N	toda solo tod	Jan 64 Ca.
Tralomethrin	N	10.00	
Triallate	N	100 May 100	
Triasulfuron	N	1945 9444 494	,000 0,00
1,2,4-Tribromobenzene	N		
Tribromochloromethane	N	50 Jan 64	
Tribromodiphenyl ether	N	0.000	
Tributyltin oxide (TBTO)	N	100,000,000	
1,1,2-Trichloro-1,2,2-trifluoroethane (CFC-113)	N	1949 1949 494	JAN 101 101
Trichloroacetic acid	N		
1,2,4-Trichlorobenzene	N		
Trichlorocyclopentadiene	N	0.00	
1,1,1-Trichloroethane (Acute)	$\top_{Y}$	10	Y
1,1,1-Trichloroethane (Short-term)	$\top_{Y}$	10	Ιγ
1,1,1-Trichloroethane (Subchronic)	Υ	10	Y
1,1,1-Trichloroethane (Chronic)	Ιγ	10	Y
1,1,2-Trichloroethane	l N		
Trichloroethylene (adult immunological effects)	Ιγ	3	Y
Trichloroethylene (development immunotoxicity)	N		
Trichloroethylene (heart malformations)	$\top_{Y}$	3	Y
Trichlorofluoromethane	$\frac{1}{N}$	1,4, ,4,4,4,4	,0,0 4,0 1,0,
2,4,5-Trichlorophenol	N		
2,4,6-Trichlorophenol	N	100,000,000	JAN 144 144
2(2,4,5-Trichlorophenoxy) propionic acid (2,4,5-TP)	l N	0.00	
2,4,5-Trichlorophenoxyacetic acid (2,4,5-T)	N		
1,1,2-Trichloropropane	N	24, 24, 24	
1,2,3-Trichloropropane	lγ	10	Y
Tricresol	N		
Tridiphane	N		
Triethylamine	Ιγ	10	Y
Triethylene glycol monobutyl ether	N	20.00.00	
Triethylene glycol monoethyl ether	N	~~~	
Trifluralin	N	1989 1989 198	,000 to 100
2,2,4-Trimethylpentane	N		
1,3,5-Trinitrobenzene	N	74. A. 14	
2,4,6-Trinitrotoluene (TNT)	N		
Uranium, natural	N	~~~	
Uranium, soluble salts	N	100, 100, 100	
Urea	N		

Vanadium pentoxide	N		~~~
Vernam	N	NA SAN NA	
Vinclozolin	N		
Vinyl acetate	Υ	10	Υ
Vinyl bromide	Υ	10	Υ
Vinyl chloride	Υ	10	Υ
Warfarin	N	14, 34, 14	
White phosphorus	N	0.00	~~~
Xylenes	Υ	10	Υ
Zinc and Compounds	N	14, 34, 14	~~~
Zinc cyanide	N		
Zinc phosphide	N	14, 34, 14	A 1 1 1 A
Zineb	N		

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Note	Value	Disc'd	Note	Value	Disc'd	Note	Value	Disc'd
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	3	Υ		1	N	N as POD	1	Υ
	3	Υ		3	Υ		10	Υ
	3	Υ		N/A	Υ	BMR	1	Υ
	С	Υ		С	Υ		3	Υ
	3	Υ		3	Υ		1	N
	3	Υ		1	N	N as POD	10	Υ
	1	N	Human exposure	1	N	N as POD	1	N
	10	Υ		1	N	N as POD	10	Υ
	3	Υ		?	N	BMR pre-03	3	Υ

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Lack of evidence of decreased pulmonary func	ction or changes in subjective symptomatology

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Increased kidney, adrenal and pituitary weights	
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Increase in incidence of olfactory atrophy, alveolar hyperplas	sia, and splenic hematopoietic proliferation in male F344/N r
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Degeneration of olfactory epithelium	
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Hyperplasia of nasal mucosa	a larynx and trachea
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Impairment of neurobehavioral function
Hand tremor; increases in memory disturbances; slight subjective and objective evidence of autonomic dysfunction
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Developmental toxicity (skeletal variations)
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Reduced fetal body weight, skeletal variations, and increased fetal death in mice, and skeletal variations in rats.
Degeneration/ atrophy of olfactory epithelium (male rats)
Increased absolute and relative liver and kidney weights and increased severity of spontaneous renal lesions (females), i
Hyperplasia of olfactory epithelium

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Nasal effects: hyperplasia and metaplasia in respiratory ar	nd olfactory epithelium, respectively
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Neurotoxicity (color vision)	
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	offects (parcecis)
Increased liver weight and centrilobular cytomegaly; CNS	
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Neurological effects in occupationally-exposed workers	
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Performance on neurobehavioral tests	
Performance on neurobehavioral tests	
Liver histopathologic changes	
Liver histopathologic changes	
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	notoxicity) y rats (heart malformations)
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Decreased thymus weight in female B6C3F1 mice (immu	notoxicity)  rats (heart malformations)
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Decreased thymus weight in female B6C3F1 mice (immu	notoxicity)  rats (heart malformations)

	A.A.V.A.
	ALVANA.
Nasal epithelial lesions	
Hypertrophy, basophilic and eosinophilic foci, in the liver	
Liver cell polymorphism	
	A.A.V.S.
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			Database			2
Note	Value	Disc'd	DB conf	Note	Combined	Other
	С	Υ			10 (Inter, DB)	None
Dur not factor	3	Υ			None	None
	1	Υ	Low/Medium		None	None
Chron study/CE	1	Υ	Low/Medium		None	None
	?	N	Medium	med DB conf	10 (Inter, LtN)	None
Chron study/CE	10	Υ			None	None
	10	Υ			None	None
Chron study/CE	3	Υ			None	None
	3	Υ			None	None
	3	Υ			None	None

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	С	Υ		~~~	10 (Subch, DB)	None
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	AND DOCUMENT		L			
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		N	High	high DB conf	None	None
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Chron study/CE	3	Υ	yan dan tak	A1 10 A1	None	10
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ne se ne	С	Υ	A-A-A-	A100 A1	10 (Subch, DB)	None
Chron study/CE	3	Υ	~~~	~~~	None	None
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100,000,00	3	Υ	~~~	~~~	None	None
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Chron study/CE	10	Υ	~~~	~~~	None	None
Chron study/CE	С	Υ		~ · · ·	10 (Inter, DB)	None
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	****		~~~			
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100 No. 70				~~~		
Chron study/CE	3	Υ			None	None
10 s An 10			Ar Ar No.	AA No. 100		
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		AA, 34-AA		***		
Chron study/CE	3	Υ	A-A-A-A		None	None
Chron study/CE	<del> </del>					
nga pipa tap	100 000 100	******	uter den fekt	A4 (A)	40.00.00	54. 44. 44
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	?	N	Medium	med DB conf	None	None
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Dur not factor	1	Υ	Medium	~~~	None	None
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	?	N	Medium	med DB conf	None	None
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Chron study/CE	1	Υ	High	~~~	None	None
Chron study/CE	3	Υ	ata dan tah	A4 NA A4	None	None
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Chron study/CE	1	Υ	Not Spec'd	AL No. of	None	None
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	and the sales	NA 34-34	ac ac sa			
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Chron study/CE	3	Υ	as as to	and the star-	10 (Intra, LtN)	None
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104 - 204 - 204	3	Υ	acasa.	A4 74. 44.	None	None
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Lifestage effect	10	Υ			None	None
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Lifestage effect	10	Υ		~~~~	None	None
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Chron study/CE	1	Y	Medium/High	~~~	None	None
CI . 1 (CF						
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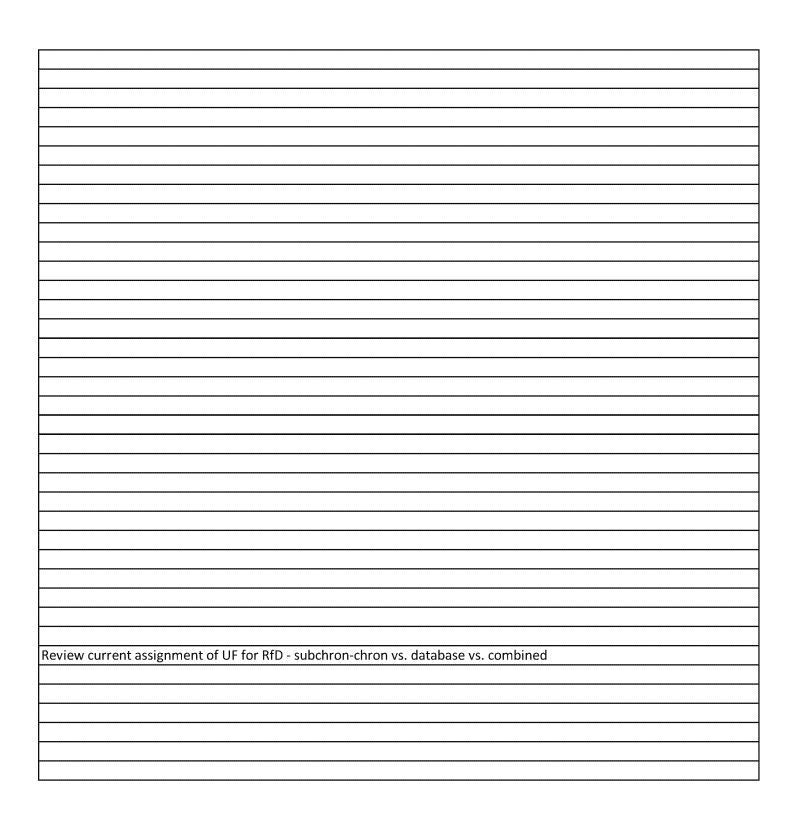
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Transitional approach to capturing use of LOAEL in benchmark modeling approach.
Seems to be disconnect between text and study parameters
Check use of gestational period and applicability of subchron-to-chron for developmental tox effects; BMR post-2003
Note re: how to interpret subchron-to-chron factor for subchron RfD
States a LtN UF = 1, which is different than what is being proposed (i.e., "null")

See note re: BMR analogue to LtN
No specific RfD/RfC - superceded by Hydrogen Cyanide and Cyanide Salts
Teratogenic study = chronic (RfD)? BMR as LtN question
Teratogenie stady – emonie (MD): Divin as Enviduestion
See UF discussion as an example of where implied but not specifically stated - said "N" anyway
See UF discussion as an example of inexact language - previous analysis takes precedence with non-1 value
Note specific discussion of database factors, i.e., not needed though medium confidence
See discussion of rationale for not needing less-than-lifetime UF for developmental study
See discussion of rationale for not needing less-than-lifetime UF for developmental study
Toratagonic study - chronic?
Teratogenic study = chronic?

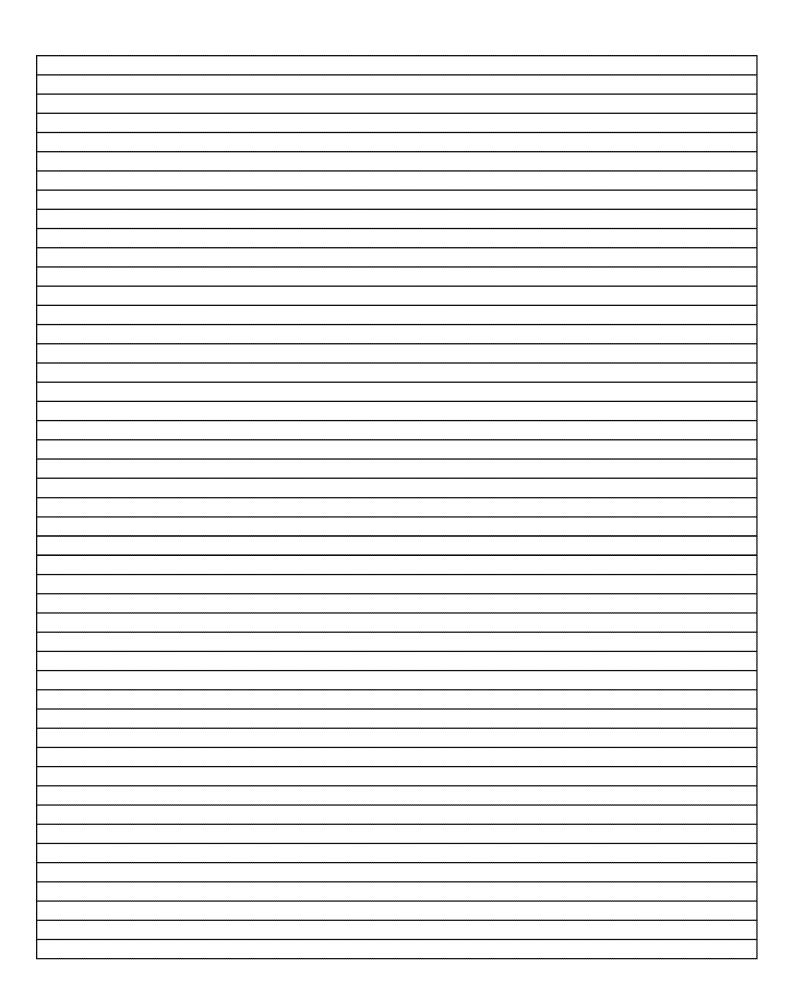
See equation - good explanation for 1s
0
Main study is developmental. DB factor adjusted for incomplete data on chronic. Unclear if subchronic should be flagge
Trial stady is developmental. By factor adjusted for meomplete data on all office of the same should be masse
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No specific RfD/RfC - superceded by Hydrogen Cyanide and Cyanide Salts  Good discussion about developmental effects/less than chronic study
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No specific RfD/RfC - superceded by Hydrogen Cyanide and Cyanide Salts  Good discussion about developmental effects/less than chronic study
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No specific RfD/RfC - superceded by Hydrogen Cyanide and Cyanide Salts  Good discussion about developmental effects/less than chronic study

After-the-fact adjustment to 3,000 (RfD)
Should be combined subchron and dbase
developmental study
See discussions re: BMR and no need for effects-level extrap See discussions re: BMR and no need for effects-level extrap
Developmental discussion
·
Seems should be a combined UF
Seems should be a combined UF

None
BMR extrapolation approach re: LtN
Had to read into it a bit; see discussion of "length of study" re: alternative to subchron

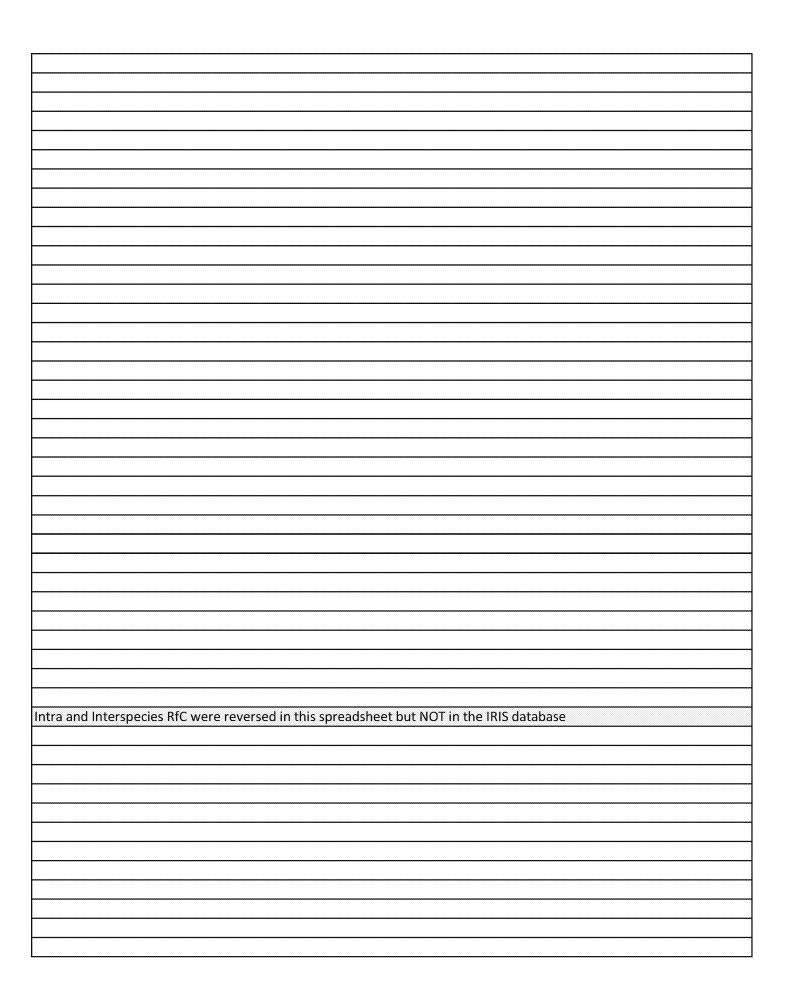
BMR	
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Explanation of BMR approach	
Explanation of BMR approach	
Judgment call on DB uncertainty - implied vs. stated	
Not sure I agree with designation of composite	

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No specific RfD/RfC - superceded by Hydrogen Cyanide and Cyanide Salts	
No specific RfD/RfC - superceded by Hydrogen Cyanide and Cyanide Salts	
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Reproductive study over 3-generations; no data on duration of dosing
reproductive study over a generations, no data on daration or desing
No duration given for study dosing
No specific RfD/RfC - superceded by Hydrogen Cyanide and Cyanide Salts
See discussions of BMR and developmental tox under RfD - contradicts "null" proposal



Additional details on 6-month dog feeding study as meeting requirements for "chronic" included
Intra and Interspecies were reversed in this spreadsheet but NOT in the IRIS database

Inter-individual or Intraspecies Variability (UF<sub>H</sub>)
Summary of Review IRIS Uncertainty Factors with a Unit or Null Value
Support for EPA's Integrated Risk Information System
July 31, 2012

Table 1A: UF is explicitly addressed in Summary in a way that supports  $UF_H = 1$ 

Line No.	
67	
70	
271	
384	
386	

Count =

Table 1B: UF is not explicitly addressed, but other information in the Summary supports a  $UF_H = 1$ 

Line No.	
336	

Count =

Substance	Type	Date
Benzoic acid	RfD	1991
Beryllium and compounds	RfC	1998
Fluorine (soluble fluoride)	RfD	1987
Nitrate	RfD	1991
Nitrite	RfD	1987

Substance	Type	Date	Comment
Manganese	RfD	1995	POD based on many cross-sections of human populations

Interspecies Uncertainty Factor (UF<sub>A</sub>)
Summary of Review IRIS Uncertainty Factors with a Unit or Null Value
Support for EPA's Integrated Risk Information System
July 31, 2012

Links:

Table 2A: UF is explicitly addressed in Summary in a way that supports  $UF_A = 1$ 

Line No.
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262
262
271
314
365
420
493
497
497
515
529
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565

Count =

Table 2B: UF is not explicitly addressed, but other information in the Summary supports a  $UF_A = 1$ 

Line No.
18
29
43
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100
107
113
146
225
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434
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475
484
516
525
562

Count =

<u>Table 2A: Explicitly addressed, supports UF = 1</u>
<u>Table 2B: Not addressed, but info supports UF = 1</u>

Substance	Туре	Date
Acephate	RfD	1989
Ethylene glycol monobutyl ether (EGBE) (2-Butoxyethanol)	RfD	2010
Ethylene glycol monobutyl ether (EGBE) (2-Butoxyethanol)	RfC	2010
Fluorine (soluble fluoride)	RfD	1987
Hydrogen Cyanide and Cyanide Salts	RfC	2010
Methylmercury (MeHg)	RfD	2001
Perchlorate (ClO4) and Perchlorate Salts	RfD	2005
2,3,7,8-Tetrachlorodibenzo-p-dioxin	RfD	2012
Tetrachloroethylene	RfD	2012
Tetrachloroethylene	RfC	2012
Toluene	RfC	2005
1,1,1-Trichloroethane (Acute)	RfC	2007
1,1,1-Trichloroethane (Short-term)	RfC	2007
Zinc and Compounds	RfD	2005

Substance	Туре	Date
Aldicarb	RfD	1993
Ammonia	RfC	1991
Arsenic, inorganic	RfD	1995
Baygon	RfD	1987
Benzene	RfD	2003
Benzene	RfC	2003
Benzoic acid	RfD	1991
Beryllium and compounds	RfC	1998
Cadmium (water)	RfD	1991
Cadmium (food)	RfD	1991
Carbon disulfide	RfC	1995
Chloral hydrate	RfD	2000
Chromium(VI) - inhalation/acid mists and aerosols	RfC	1998
N,N-Dimethylformamide	RfC	1990
4,6-Dinitro-o-cyclohexyl phenol	RfD	1988

2,4-Dinitrophenol	RfD	1991
Ethephon	RfD	1988
Ethion	RfD	1989
Malathion	RfD	1987
Manganese	RfD	1995
Manganese	RfC	1995
Mercury, elemental	RfC	1995
Molybdenum	RfD	1992
Nitrate	RfD	1991
Nitrite	RfD	1987
Pirimiphos-methyl	RfD	1987
Selenious acid	RfD	1991
Selenium and Compounds	RfD	1991
Silver	RfD	1991
Styrene	RfC	1992
2,4-/2,6-Toluene diisocyanate mixture (TDI)	RfC	1995
1,1,2-Trichloro-1,2,2-trifluoroethane (CFC-113)	RfD	1988
Warfarin	RfD	1987

# Comment POD based on epidemiological or other type of human study POD based on epidemiological or other type of human study POD based on epidemiological or other type of human study POD based on epidemiological or other type of human study POD based on epidemiological or other type of human study POD based on epidemiological or other type of human study POD based on epidemiological or other type of human study POD based on epidemiological or other type of human study POD based on epidemiological or other type of human study POD based on epidemiological or other type of human study POD based on epidemiological or other type of human study POD based on epidemiological or other type of human study POD based on epidemiological or other type of human study POD based on epidemiological or other type of human study POD based on epidemiological or other type of human study

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Uncertainty in Extrapolating from a LOAEL Rather than from a NOAEL (UF<sub>L</sub>)
Summary of Review IRIS Uncertainty Factors with a Unit or Null Value
Support for EPA's Integrated Risk Information System
July 31, 2012

Links:

Table 3A: UF is explicitly addressed in Summary in a way that supports  $UF_L = 1$ 

Line No.
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168
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295
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Count =

Table 3B: UF is not explicitly addressed, but other information in the Summary supports a UF $_{\rm L}$  = 1

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Count =

Table 3C: UF is explicitly addressed in Summary in a way that supports UF<sub>L</sub> = "not applicable (N/A)"

Line No.
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Count =

Return to top

Table 3D: UF is not explicitly addressed, but other information in Summary supports a UF<sub>L</sub> = "not applicable (N/A)"

Line No.
79
181

Count =

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Table 3E: UF is not explicitly addressed, and it is unclear whether a UF $_{\rm L}$  value of 1 or "not applicable" best reflects the  $\alpha$ 

Line No.
37
61
61
92
107
147
159
204
204
304
357
363
365
431
502
524

Count =

#### Return to top

Table 3F: UF is not explicitly addressed; info in Summary does not support a UF $_{\rm L}$  of 1 or N/A; further review required

Line No.	
78	
475	

Count =

Table 3A: Explicitly addressed, supports UF = 1

<u>Table 3B: Not addressed, but info supports UF = 1</u>

Table 3C: Explicitly addressed, supports UF = N/A

Table 3D: Not addressed, but info supports UF = N/A

Table 3E: Not addressed, unclear what value best reflects decision; further review required

Table 3F: Not addressed, info does not support UF = 1 or N/A; further review required

Substance	Type	Date
Acetone	RfD	2003
Acrolein	RfD	2003
2,2',3,3',4,4',5,5',6,6'-Decabromodiphenyl ether (BDE-209)	RfD	2008
1,4-Dioxane	RfD	2010
2,2',4,4',5,5'-Hexabromodiphenyl ether (BDE-153)	RfD	2008
Hexachloroethane	RfC	2011
n-Hexane	RfC	2005
Perchlorate (CIO4) and Perchlorate Salts		2005
Toluene	RfC	2005
1,1,1-Trichloroethane (Subchronic)	RfC	2007
1,1,1-Trichloroethane (Chronic)	RfC	2007
Xylenes	RfD	2003
Zinc and Compounds	RfD	2005

Substance	Туре	Date
Acenaphthene	RfD	1990
Acetaldehyde	RfC	1991
Acetochlor	RfD	1993
Acetonitrile	RfC	1999
Acetophenone	RfD	1991
Acifluorfen, sodium	RfD	1987
Acrylic acid	RfD	1994
Alachlor	RfD	1993
Alar	RfD	1988
Aldicarb	RfD	1993
Aldicarb sulfone	RfD	1993
Ally	RfD	1988

Allyl alcohol	RfD	1988
Allyl chloride	RfC	1991
Aluminum phosphide	RfD	1987
Amdro	RfD	1987
Ametryn	RfD	1987
Amitraz	RfD	1988
Ammonia	RfC	1991
Ammonium sulfamate	RfD	1989
Aniline	RfC	1990
Anthracene	RfD	1991
Apollo	RfD	1991
Aroclor 1016	RfD	1993
Arsenic, inorganic	RfD	1995
Arsine	RfC	1994
Assure	RfD	1991
Atrazine	RfD	1993
Avermectin B1	RfD	1989
Bayleton	RfD	1988
Baythroid	RfD	1988
Benefin	RfD	1987
Benomyl	RfD	1987
Bentazon (Basagran)	RfD	1998
Benzaldehyde	RfD	1988
Benzoic acid	RfD	1991
Bidrin	RfD	1987
Biphenthrin	RfD	1988
1,1-Biphenyl	RfD	1991
Bis(2-chloro-1-methylethyl) ether Bromate	RfD	1989 2001
Bromoform	RfD	1993
Bromomethane	RfD RfD	1993
Bromoxynil	RfD	1988
Bromoxynil octanoate	RfD	1988
n-Butanol	RfD	1991
Butyl benzyl phthalate	RfD	1989
Butylate	RfD	1994
Butylphthalyl butylglycolate (BPBG)	RfD	1987
Cadmium (water)	RfD	1991
Cadmium (food)	RfD	1991
Caprolactam	RfD	1994
Captan	RfD	1989
Carbaryl	RfD	1991
Carbofuran	RfD	1987
Carbon disulfide	RfD	1995
Carbosulfan	RfD	1987
Carboxin	RfD	1987
Chlordane (Technical)	RfD	1998

Chlordane (Technical)	RfC	1998
Chlorimuron-ethyl	RfD	1989
Chlorine	RfD	1994
Chlorine cyanide	RfD	1987
Chlorine dioxide	RfD	2000
Chlorite (sodium salt)	RfD	2000
1-Chloro-1,1-difluoroethane	RfC	1995
Chlorobenzene	RfD	1990
Chlorobenzilate	RfD	1989
Chlorodifluoromethane	RfC	1993
beta-Chloronaphthalene	RfD	1990
2-Chlorophenol	RfD	1988
Chlorothalonil	RfD	1988
o-Chlorotoluene	RfD	1990
Chlorpropham	RfD	1988
Chlorsulfuron	RfD	1987
Chromium(III), insoluble salts	RfD	1988
Chromium(VI) - oral	RfD	1998
Copper cyanide	RfD	1988
Cumene	RfD	1997
Cumene	RfC	1997
Cyanogen bromide	RfD	1988
Cyclohexanone	RfD	1987
Cyclohexylamine	RfD	1988
Cyhalothrin/Karate	RfD	1988
Cypermethrin	RfD	1989
Cyromazine	RfD	1987
Dacthal	RfD	1994
Dalapon, sodium salt	RfD	1988
Danitol	RfD	1994
Di(2-ethylhexyl)adipate	RfD	1992
1,2-Dibromo-3-chloropropane (DBCP)		1991
1,4-Dibromobenzene	RfD	1987
Dibromochloromethane	RfD	1992
Dibutyl phthalate	RfD	1990
Dicamba	RfD	1988
1,2-Dichlorobenzene	RfD	1990
1,4-Dichlorobenzene	RfC	1994
Dichlorodifluoromethane	RfD	1988
p,p'-Dichlorodiphenyltrichloroethane (DDT)	RfD	1988
2,4-Dichlorophenol	RfD	1988
4-(2,4-Dichlorophenoxy)butyric acid (2,4-DB)	RfD	1987
2,4-Dichlorophenoxyacetic acid (2,4-D)	RfD	1987
2,3-Dichloropropanol	RfD	1990
Dichlorvos	DED	1994
	RfD	133.
Dichlorvos	RfC	1994

Diesel engine exhaust	RfC	2003
Diethyl phthalate	RfD	1988
Difenzoquat	RfD	1988
Diflubenzuron	RfD	1987
1,1-Difluoroethane	RfC	1994
Diisopropyl methylphosphonate (DIMP)	RfD	1989
Dimethipin	RfD	1988
Dimethoate	RfD	1988
2,4-Dimethylphenol	RfD	1990
2,6-Dimethylphenol	RfD	1988
3,4-Dimethylphenol	RfD	1988
m-Dinitrobenzene	RfD	1991
2,4-Dinitrotoluene	RfD	1992
Diphenamid	RfD	1987
Diphenylamine	RfD	1987
Diquat	RfD	1987
Diuron	RfD	1988
Dodine	RfD	1987
Endosulfan	RfD	1994
Endothall	RfD	1987
Endrin	RfD	1989
Epichlorohydrin	RfC	1992
Ethion	RfD	1989
2-Ethoxyethanol	RfC	1991
Ethyl acetate	RfD	1987
Ethyl chloride	RfC	1991
S-Ethyl dipropylthiocarbamate (EPTC)	RfD	1987
Ethyl ether	RfD	1990
Ethyl p-nitrophenyl phenylphosphorothioate (EPN)	RfD	1987
Ethylbenzene	RfD	1991
Ethylbenzene Standard		1991
Ethylene glycol	RfD	1987
Ethylphthalyl ethylglycolate (EPEG)	RfD	1987
Express	RfD	1989
Fenamiphos Fluometuron	RfD RfD	1987 1988
Fluoranthene	RfD	1988
Fluorene	RfD	1990
Fluorine (soluble fluoride)	RfD	1987
Fluridone	RfD	1987
Flurprimidol	RfD	1989
Fluvalinate	RfD	1988
Folpet	RfD	1988
Fonofos	RfD	1987
Formaldehyde	RfD	1991
Fosetyl-al	RfD	1988
Furan	RfD	1987
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Glufosinate-ammonium	RfD	1987
Glycidaldehyde	RfD	1991
Glyphosate	RfD	1989
Haloxyfop-methyl	RfD	1990
Harmony	RfD	1988
Heptachlor	RfD	1991
Hexabromobenzene	RfD	1988
Hexachlorobenzene	RfD	1991
gamma-Hexachlorocyclohexane (gamma-HCH)	RfD	1988
Hexachlorocyclopentadiene (HCCPD)	RfC	2001
Hexahydro-1,3,5-trinitro-1,3,5-triazine (RDX)	RfD	1990
1,6-Hexamethylene diisocyanate	RfC	1994
Hexazinone	RfD	1990
Hydrogen sulfide	RfC	2003
Imazalil	RfD	1987
Imazaquin	RfD	1987
Iprodione	RfD	1988
Isobutyl alcohol	RfD	1987
Isophorone	RfD	1992
Isopropalin	RfD	1987
Isopropyl methyl phosphonic acid (IMPA)	RfD	1992
Isoxaben	RfD	1991
Londax	RfD	1988
Malathion	RfD	1987
Maleic anhydride	RfD	1988
Maneb	RfD	1988
Manganese	RfD	1995
Mepiquat chloride	RfD	1988
Merphos	RfD	1992
Merphos oxide	RfD	1992
Metalaxyl	RfD	1987
Methacrylonitrile	RfD	1988
Methanol	RfD	1988
Methidathion	RfD	1989
Methomyl	RfD	1987
Methoxychlor	RfD	1992
2-Methoxyethanol	RfC	1991
Methyl chloride	RfC	2001
Methyl isobutyl ketone (MIBK)	RfC	2003
Methyl methacrylate	RfD	1998
Methyl parathion	RfD	1987
Methyl tert-butyl ether (MTBE)	RfC	1993
4-(2-Methyl-4-chlorophenoxy) butyric acid (MCPB)	RfD	1988
2-(2-Methyl-4-chlorophenoxy)propionic acid (MCPP)	RfD	1989
2-Methyl-4-chlorophenoxyacetic acid (MCPA)	RfD	1987
2 Welly, 1 chorophenoxyacetic dela (Well')	INID	
2-Methylphenol	RfD	1992

Metolachlor	RfD	1990
Metribuzin	RfD	1993
Mirex	RfD	1992
Molinate	RfD	1988
Monochloramine	RfD	1994
Naled	RfD	1987
Naphthalene	RfD	1998
Napropamide	RfD	1989
Nickel, soluble salts	RfD	1991
Nitrate	RfD	1991
Nitrite	RfD	1987
Nitroguanidine	RfD	1990
Norflurazon	RfD	1987
NuStar	RfD	1988
Octabromodiphenyl ether	RfD	1990
Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine (HMX)	RfD	1989
Oryzalin	RfD	1989
Oxadiazon	RfD	1987
Oxamyl	RfD	1987
Oxyfluorfen	RfD	1987
Paclobutrazol	RfD	1987
Paraquat	RfD	1988
Pendimethalin	RfD	1988
Pentabromodiphenyl ether	RfD	1990
Pentachloronitrobenzene (PCNB)	RfD	1987
Permethrin	RfD	1987
Phenmedipham	RfD	1990
m-Phenylenediamine	RfD	1987
Phenylmercuric acetate	RfD	1987
Phosmet	RfD	1987
Phosphine	RfD	1995
Phosphine	RfC	1995
Picloram	RfD	1987
Pirimiphos-methyl	RfD	1987
Prochloraz	RfD	1989
Prometon	RfD	1988
Prometryn	RfD	1987
Pronamide	RfD	1987
Propachlor	RfD	1987
Propanil	RfD	1988
Propargite (systemic effects)	RfD	1990
Propargite (maternal and feto- toxicity)	RfD	1990
Propargyl alcohol	RfD	1990
Propazine	RfD	1987
Propham	RfD	1987
Propiconazole	RfD	1988
Propylene glycol monomethyl ether (PGME)	RfC	1991

Pursuit	RfD	1990
Pydrin	RfD	1987
Pyrene	RfD	1991
Pyridine	RfD	1987
Quinalphos	RfD	1987
Rotenone	RfD	1988
Savey	RfD	1988
Selenious acid	RfD	1991
Selenium and Compounds	RfD	1991
Sethoxydim	RfD	1989
Silver cyanide	RfD	1987
Simazine	RfD	1993
Sodium azide	RfD	1987
Sodium diethyldithiocarbamate	RfD	1988
Sodium fluoroacetate	RfD	1991
Strontium	RfD	1992
Styrene	RfD	1992
Styrene	RfC	1992
Systhane	RfD	1988
Tebuthiuron	RfD	1988
Terbacil	RfD	1987
Terbutryn	RfD	1988
1,2,4,5-Tetrachlorobenzene	RfD	1988
2,3,4,6-Tetrachlorophenol	RfD	1988
Tetrachlorovinphos	RfD	1987
Tetraethyldithiopyrophosphate	RfD	1988
Thiobencarb	RfD	1987
Thiophanate-methyl	RfD	1988
Thiram	RfD	1987
2,4-/2,6-Toluene diisocyanate mixture (TDI)	RfC	1995
Tralomethrin	RfD	1989
Triallate	RfD	1990
Triasulfuron	RfD	1991
1,2,4-Tribromobenzene	RfD	1987
1,1,2-Trichloro-1,2,2-trifluoroethane (CFC-113)	RfD	1988
1,2,4-Trichlorobenzene	RfD	1992
1,1,2-Trichloroethane	RfD	1991
2,4,5-Trichlorophenol	RfD	1991
2(2,4,5-Trichlorophenoxy) propionic acid (2,4,5-TP)	RfD	1988
2,4,5-Trichlorophenoxyacetic acid (2,4,5-T)	RfD	1988
1,1,2-Trichloropropane	RfD	1998
Tridiphane	RfD	1987
Triethylamine	RfC	1991
Trifluralin	RfD	1989
1,3,5-Trinitrobenzene	RfD	1997
Vanadium pentoxide	RfD	1988
Vernam	RfD	1987

Vinclozolin	RfD	1987
Vinyl acetate	RfC	1990
Vinyl chloride	RfD	2000
Vinyl chloride	RfC	2000
White phosphorus	RfD	1990
Xylenes	RfC	2003
Zinc cyanide	RfD	1987

Substance	Type	Date
Acrylamide	RfD	2010
Acrylamide	RfC	2010
Barium and Compounds	RfD	2005
Beryllium and compounds	RfD	1998
Bromobenzene (subchronic)	RfD	2009
Bromobenzene (subchronic)	RfC	2009
Bromobenzene (chronic)	RfD	2009
Bromobenzene (chronic)	RfC	2009
Carbon tetrachloride	RfD	2010
Carbon tetrachloride	RfC	2010
Cerium Oxide and Cerium Compounds	RfC	2009
Chlordecone (Kepone)	RfD	2009
Chloroform	RfD	2001
Chloroprene	RfC	2010
cis-1,2-Dichloroethylene	RfD	2010
trans-1,2-Dichloroethylene	RfD	2010
1,1-Dichloroethylene (1,1-DCE)	RfD	2002
1,1-Dichloroethylene (1,1-DCE)	RfC	2002
Dichloromethane	RfD	2011
Dichloromethane	RfC	2011
Ethylene glycol monobutyl ether (EGBE) (2-Butoxyethanol)	RfD	2010
Ethylene glycol monobutyl ether (EGBE) (2-Butoxyethanol)	RfC	2010
Hexachloroethane	RfD	2011
2-Hexanone	RfD	2009
2-Hexanone	RfC	2009
Hydrogen Cyanide and Cyanide Salts	RfD	2010
Methyl ethyl ketone (MEK)	RfD	2003
Methyl ethyl ketone (MEK)	RfC	2003
2-Methylnaphthalene	RfD	2003
Nitrobenzene	RfD	2009
Nitrobenzene	RfC	2009
2,2',4,4',5-Pentabromodiphenyl ether (BDE-99)	RfD	2008
Phenol	RfD	2002

Phosgene	RfC	2006
Propionaldehyde	RfC	2008
2,2',4,4'-Tetrabromodiphenyl ether (BDE-47)	RfD	2008
1,1,2,2-Tetrachloroethane (subchronic)	RfD	2010
1,1,2,2-Tetrachloroethane (chronic)	RfD	2010
Tetrahydrofuran	RfD	2012
Tetrahydrofuran	RfC	2012
Toluene	RfD	2005
Trichloroacetic acid	RfD	2011
1,1,1-Trichloroethane (Subchronic)	RfD	2007
1,1,1-Trichloroethane (Chronic)	RfD	2007
Trichloroethylene (heart malformations)	RfD	2011
Trichloroethylene (heart malformations)	RfC	2011
1,2,3-Trichloropropane	RfD	2009
1,2,3-Trichloropropane	RfC	2009

Substance	Type	Date
Boron and Compounds	RfD	2004
1,2-Dibromoethane	RfC	2004

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Substance	Туре	Date
Antimony trioxide	RfC	1995
Benzene	RfD	2003
Benzene	RfC	2003
1,3-Butadiene	RfC	2002
Carbon disulfide	RfC	1995
Chromium(VI) - inhalation/particulates	RfC	1998
Cyclohexane	RfC	2003
1,3-Dichloropropene	RfD	2000
1,3-Dichloropropene	RfC	2000
Hexachlorocyclopentadiene (HCCPD)	RfD	2001
Methyl methacrylate	RfC	1998
Methylene Diphenyl Diisocyanate (monomeric MDI) and polymeric MDI (PMDI)	RfC	1998
Methylmercury (MeHg)	RfD	2001
Phosphoric acid	RfC	1995
1,1,1,2-Tetrafluoroethane	RfC	1995
Tributyltin oxide (TBTO)	RfD	1997

Substance	Туре	Date
Bisphenol A.	RfD	1988
Silver	RfD	1991

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Comment
Effect-level addressed as consideration in selecting a BMR for BMD/BMC modeling
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#### Comment

Benchmark modeling used, post-EPA policy regarding no need for UF-L (see Table 3C) Benchmark modeling used, post-EPA policy regarding no need for UF-L (see Table 3C)

## Comment Benchmark modeling used, pre-EPA policy regarding no need for UFL (see Table 3C) Benchmark modeling used; "other" UF used to capture effect-level considerations Benchmark modeling used; "other" UF used to capture effect-level considerations Benchmark modeling used; "other" UF used to capture effect-level considerations Benchmark modeling used, pre-EPA policy regarding no need for UFL (see Table 3C) Benchmark modeling used, pre-EPA policy regarding no need for UFL (see Table 3C) Benchmark modeling used, transitional period re: need for UFL (see Table 3C) Benchmark modeling used, pre-EPA policy regarding no need for UFL (see Table 3C) Benchmark modeling used, pre-EPA policy regarding no need for UFL (see Table 3C) Benchmark modeling used, pre-EPA policy regarding no need for UFL (see Table 3C) Benchmark modeling used, pre-EPA policy regarding no need for UFL (see Table 3C) Benchmark modeling used, pre-EPA policy regarding no need for UFL (see Table 3C) Benchmark modeling used, pre-EPA policy regarding no need for UFL (see Table 3C) Benchmark modeling used, pre-EPA policy regarding no need for UFL (see Table 3C) Benchmark modeling used, pre-EPA policy regarding no need for UFL (see Table 3C) Benchmark modeling used, pre-EPA policy regarding no need for UFL (see Table 3C)

### Comment

Info in summary suggests that UF discussion is incorrect, UF-L should be 10

POD is an LOAEL, but Summary does not address UF for effect-level extrapolation

Col RfD: 2 13 Col RfC: 25 35 Uncertainty in Extrapolating from Subchronic to Chronic Exposure (UF<sub>S</sub>)
Summary of Review IRIS Uncertainty Factors with a Unit or Null Value
Support for EPA's Integrated Risk Information System
July 31, 2012

<u>Links:</u>

Table 4A: UF is explicitly addressed in Summary in a way that supports  $UF_S = 1$ 

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Table 4B: UF is not explicitly addressed, but other information in the Summary supports a UF $_{\rm S}$  = 1

Line No.
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Count =

Return to top

Table 4C: UF is explicitly addressed in Summary in a way that supports UF<sub>S</sub> = "not applicable (N/A)"

Line No.
120
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159
271
353
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355
424
503
529
530
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531
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536

Count =

Table 4D: UF is not explicitly addressed, but other information in Summary supports a  $UF_S = \text{"not applicable (N/A)"}$ 

Line No.
13
17
49
57
79
82
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102
107
126
183
255
259
287
348
365
384

386	
445	
467	
495	

Return to top

Table 4E: UF is not explicitly addressed; info in Summary does not support a UF<sub>S</sub> of 1 or N/A; further review required

Line No.
32
53
250
332
373
433
434

Count =

Return to top

Table 4F: UF is explicitly addressed; but info in Summary suggests a change to current UF<sub>S</sub>; further review required

Line No.	
78	
182	
203	
226	

Count =

Table 4A: Explicitly addressed, supports UF = 1

Table 4B: Not addressed, but info supports UF = 1

Table 4C: Explicitly addressed, supports UF = N/A

Table 4D: Not addressed, but info supports UF = N/A

Table 4E: Not addressed; info does not support a UFS = 1 or N/A; further review required

Table 4F: Explicitly addressed, but info suggests a change to current UF; further review required

Substance	Туре	Date
Acephate	RfD	1989
Acetonitrile	RfC	1999
Acrolein	RfD	2003
Acrylamide	RfD	2010
Acrylamide	RfC	2010
Aldicarb	RfD	1993
Aldicarb sulfone	RfD	1993
Barium and Compounds	RfD	2005
Bentazon (Basagran)	RfD	1998
Beryllium and compounds	RfD	1998
Beryllium and compounds	RfC	1998
1,3-Butadiene	RfC	2002
Carbon tetrachloride	RfC	2010
Chloral hydrate	RfD	2000
Chlordecone (Kepone)	RfD	2009
Chloroform	RfD	2001
Chloroprene	RfC	2010
Cyromazine	RfD	1987
1,2-Dibromoethane	RfD	2004
1,2-Dibromoethane	RfC	2004
p,p'-Dichlorodiphenyltrichloroethane (DDT)	RfD	1988
1,1-Dichloroethylene (1,1-DCE)	RfD	2002
1,1-Dichloroethylene (1,1-DCE)	RfC	2002
Dichloromethane	RfD	2011
Dichloromethane	RfC	2011
2,4-Dichlorophenol	RfD	1988
2,4-Dichlorophenoxyacetic acid (2,4-D)	RfD	1987
Diesel engine exhaust	RfC	2003
1,4-Dioxane	RfD	2010
Ethion	RfD	1989
Ethylene glycol monobutyl ether (EGBE) (2-Butoxyethanol)	RfD	2010

Ethylene glycol monobutyl ether (EGBE) (2-Butoxyethanol)	RfC	2010
2-Hexanone	RfD	2009
Metalaxyl	RfD	1987
2-Methylnaphthalene	RfD	2003
Nitrobenzene	RfC	2009
Norflurazon	RfD	1987
Pentachlorophenol	RfD	2010
Perchlorate (CIO4) and Perchlorate Salts	RfD	2005
Pydrin	RfD	1987
Silver	RfD	1991
2,3,7,8-Tetrachlorodibenzo-p-dioxin	RfD	2012
Tetrachloroethylene	RfD	2012
Tetrachloroethylene	RfC	2012
Tetrahydrofuran	RfC	2012
Thiobencarb	RfD	1987
Toluene	RfC	2005
Trichloroacetic acid	RfD	2011
1,1,1-Trichloroethane (Chronic)	RfC	2007
Trichloroethylene (adult immunological effects)	RfD	2011
Trichloroethylene (adult immunological effects)	RfC	2011
1,2,3-Trichloropropane	RfD	2009
Uranium, soluble salts	RfD	1989
Xylenes	RfD	2003
Zinc and Compounds	RfD	2005

Substance	Туре	Date
Acetochlor	RfD	1993
Acifluorfen, sodium	RfD	1987
Acrylonitrile	RfC	1991
Alachlor	RfD	1993
Aldrin	RfD	1991
Ally	RfD	1988
Aluminum phosphide	RfD	1987
Amitraz	RfD	1988
Ammonia	RfC	1991
Antimony	RfD	1991
Apollo	RfD	1991
Arsenic, inorganic	RfD	1995
Assure	RfD	1991
Asulam	RfD	1988
Atrazine	RfD	1993
Bayleton	RfD	1988

Baythroid RfD Benefin RfD Benzidine RfD Benzoic acid RfD Bidrin RfD Biphenthrin RfD 1,1-Biphenyl RfD Bis(2-chloro-1-methylethyl) ether RfD Bromate RfD Bromodichloromethane RfD Bromowynil RfD Bromoxynil RfD Bromoxynil octanoate RfD Butylate RfD Butylphthalyl butylglycolate (BPBG) Cadmium (water)	1988
Benzidine RfD Benzoic acid RfD Bidrin RfD Biphenthrin RfD 1,1-Biphenyl RfD Bis(2-chloro-1-methylethyl) ether RfD Bromate RfD Bromodichloromethane RfD Bromodichloromethane RfC Bromoxynil RfD Bromoxynil RfD Butylate RfD Butylphthalyl butylglycolate (BPBG) Cadmium (water)	1987
Benzoic acid RfD Bidrin RfD Biphenthrin RfD 1,1-Biphenyl RfD Bis(2-chloro-1-methylethyl) ether RfD Bromate RfD Bromodichloromethane RfD Bromodichloromethane RfC Bromoxynil RfD Bromoxynil RfD Butylate RfD Butylphthalyl butylglycolate (BPBG) Cadmium (water)	1991
Bidrin RfD Biphenthrin RfD 1,1-Biphenyl RfD Bis(2-chloro-1-methylethyl) ether RfD Bromate RfD Bromodichloromethane RfD Bromowynil RfD Bromoxynil RfD Butylate RfD Butylphthalyl butylglycolate (BPBG) Cadmium (water)	1991
Biphenthrin RfD  1,1-Biphenyl RfD  Bis(2-chloro-1-methylethyl) ether RfD  Bromate RfD  Bromodichloromethane RfD  Bromowynil RfD  Bromoxynil RfD  Butylate RfD  Butylphthalyl butylglycolate (BPBG)  Cadmium (water)	1987
1,1-BiphenylRfDBis(2-chloro-1-methylethyl) etherRfDBromateRfDBromodichloromethaneRfDBromomethaneRfCBromoxynilRfDBromoxynil octanoateRfDButylateRfDButylphthalyl butylglycolate (BPBG)RfDCadmium (water)RfD	1988
Bis(2-chloro-1-methylethyl) ether RfD Bromate RfD Bromodichloromethane RfC Bromowynil RfD Bromoxynil RfD Bromoxynil octanoate RfD Butylate RfD Butylphthalyl butylglycolate (BPBG) RfD Cadmium (water)	1991
Bromate RfD Bromodichloromethane RfD Bromomethane RfC Bromoxynil RfD Bromoxynil octanoate RfD Butylate RfD Butylphthalyl butylglycolate (BPBG) RfD Cadmium (water)	1989
BromodichloromethaneRfDBromomethaneRfCBromoxynilRfDBromoxynil octanoateRfDButylateRfDButylphthalyl butylglycolate (BPBG)RfDCadmium (water)RfD	2001
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ButylateRfDButylphthalyl butylglycolate (BPBG)RfDCadmium (water)RfD	1988
Butylphthalyl butylglycolate (BPBG) RfD Cadmium (water) RfD	1994
Cadmium (water) RfD	1987
	1991
Cadmium (food)	1991
Captafol	1987
Captan	1989
Carbaryl RfD	1991
Carbofuran RfD	1987
Carbosulfan RfD	1987
Carboxin	1987
Chloramben RfD	1987
Chlordane (Technical) RfD	1998
Chlorimuron-ethyl RfD	1989
Chlorine RfD	1994
Chlorine cyanide RfD	1987
1-Chloro-1,1-difluoroethane RfC	1995
2-Chloroacetophenone RfC	1991
p-Chloroaniline RfD	1988
Chlorodifluoromethane RfC	1993
Chlorothalonil RfD	1988
Chlorpropham RfD	1988
Chlorsulfuron RfD	1987
Chromium(III), insoluble salts RfD	1988
Cyanogen bromide RfD	1988
Cyclohexanone RfD	1987
Cyclohexylamine RfD	1988
Cyhalothrin/Karate RfD	1988
Cypermethrin RfD	1989
Dacthal RfD	1994
Dalapon, sodium salt RfD	1988
Danitol RfD	1994
Demeton RfD	1987
Di(2-ethylhexyl)adipate RfD	1992
1,2-Dichlorobenzene RfD	1990

Dichlorodifluoromethane	RfD	1988
1,3-Dichloropropene	RfD	2000
1,3-Dichloropropene	RfC	2000
Dichlorvos	RfD	1994
Dichlorvos	RfC	1994
Dieldrin	RfD	1991
Difenzoquat	RfD	1988
Diflubenzuron	RfD	1987
1,1-Difluoroethane	RfC	1994
Dimethipin	RfD	1988
Dimethoate	RfD	1988
Dimethyl terephthalate (DMT)	RfD	1987
2,4-Dinitrotoluene	RfD	1992
Dinoseb	RfD	1989
Diphenamid	RfD	1987
Diphenylamine Diphenylamine	RfD	1987
Diquat	RfD	1987
Disulfoton	RfD	1987
Diuron	RfD	1988
Dodine	RfD	1987
Endosulfan	RfD	1994
Endothall	RfD	1987
Endrin	RfD	1989
1,2-Epoxybutane (EBU)	RfC	1992
S-Ethyl dipropylthiocarbamate (EPTC)	RfD	1987
Ethylene glycol	RfD	1987
Ethylene thiourea (ETU)	RfD	1991
Ethylphthalyl ethylglycolate (EPEG)	RfD	1987
Express	RfD	1989
Fenamiphos	RfD	1987
Fluometuron	RfD	1988
Fluridone	RfD	1987
Flurprimidol	RfD	1989
Flutolanil	RfD	1989
Fluvalinate	RfD	1988
Folpet	RfD	1988
Fonofos	RfD	1987
Formaldehyde	RfD	1991
Fosetyl-al	RfD	1988
Haloxyfop-methyl	RfD	1990
Harmony Heptachlor	RfD	1988 1991
Heptachlor epoxide	RfD RfD	1991
Hexachlorobenzene	RfD	1991
Hexachlorocyclopentadiene (HCCPD)	RfC	2001
Hexahydro-1,3,5-trinitro-1,3,5-triazine (RDX)	RfD	1990
1,6-Hexamethylene diisocyanate	RfC	1990
1,0-HEAGIHERHYICHE GIISOCYAHARE	NIC	12234

Hexazinone	RfD	1990
Hydrogen chloride	RfC	1995
Imazalil	RfD	1987
Imazaquin	RfD	1987
Iprodione	RfD	1988
Isoxaben	RfD	1991
Lactofen	RfD	1988
Linuron	RfD	1989
Londax	RfD	1988
Maleic anhydride	RfD	1988
Maleic hydrazide	RfD	1987
Manganese	RfD	1995
Manganese	RfC	1995
Mercury, elemental	RfC	1995
Methamidophos	RfD	1987
Methidathion	RfD	1989
Methomyl	RfD	1987
Methyl methacrylate	RfD	1998
Methyl methacrylate	RfC	1998
Methyl parathion	RfD	1987
Methyl tert-butyl ether (MTBE)	RfC	1993
2-Methyl-4-chlorophenoxyacetic acid (MCPA)	RfD	1987
Methylene Diphenyl Diisocyanate (monomeric MDI) and polymeric MDI (PMDI)	RfC	1998
Metolachlor	RfD	1990
Metribuzin	RfD	1993
Mirex	RfD	1992
Molybdenum	RfD	1992
Monochloramine Noted	RfD	1994
Naled Naphthalone	RfD	1987
Napropamide	RfC	1998
Napropamide Nickel, soluble salts	RfD RfD	1989 1991
2-Nitropropane	RfC	1991
NuStar	RfD	1988
Oryzalin	RfD	1988
Oxadiazon	RfD	1989
Oxamyl	RfD	1987
Oxyfluorfen	RfD	1987
Paraquat	RfD	1988
Pendimethalin	RfD	1988
Pentachloronitrobenzene (PCNB)	RfD	1987
Permethrin	RfD	1987
Phenmedipham	RfD	1990
Phenylmercuric acetate	RfD	1987
Phosmet	RfD	1987
Phosphine	RfD	1995
Phthalic anhydride	RfD	1988
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Prochloraz	RfD	1989
Prometryn	RfD	1987
Pronamide	RfD	1987
Propanil	RfD	1988
Propargite (systemic effects)	RfD	1990
Propazine	RfD	1987
Propiconazole	RfD	1988
Propylene oxide	RfC	1991
Pursuit	RfD	1990
Quinalphos	RfD	1987
Rotenone	RfD	1988
Savey	RfD	1988
Selenious acid	RfD	1991
Selenium and Compounds	RfD	1991
Sethoxydim	RfD	1989
Silver cyanide	RfD	1987
Simazine	RfD	1993
Strontium	RfD	1992
Systhane	RfD	1988
Tebuthiuron	RfD	1988
Terbacil	RfD	1987
Terbutryn	RfD	1988
1,1,1,2-Tetrachloroethane	RfD	1991
Tetrachlorovinphos	RfD	1987
1,1,1,2-Tetrafluoroethane	RfC	1995
Thiophanate-methyl	RfD	1988
Thiram	RfD	1987
Tralomethrin	RfD	1989
Triallate	RfD	1990
Triasulfuron	RfD	1991
Tributyltin oxide (TBTO)	RfD	1997
1,1,2-Trichloro-1,2,2-trifluoroethane (CFC-113)	RfD	1988
Trichlorofluoromethane	RfD	1987
2(2,4,5-Trichlorophenoxy) propionic acid (2,4,5-TP)  2,4,5-Trichlorophenoxyacetic acid (2,4,5-T)	RfD	1988
Z,4,5-17icniorophenoxyacetic acid (2,4,5-1)  Tridiphane	RfD	1988
Trifluralin	RfD	1987 1989
	RfD	1989
1,3,5-Trinitrobenzene  Vanadium pentoxide	RfD RfD	1988
Vinclozolin		1987
Vinciozolin Vinyl acetate	RfD RfC	1990
Vinyl bromide	RfC	1990
Vinyl chloride	RfD	2000
Vinyl chloride  Vinyl chloride	RfC	2000
Warfarin	RfD	1987
White phosphorus	RfD	1990
Zinc cyanide	RfD	1987
Zine cyaniae	MID	11367

Zineb	1	987
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Substance	Туре	Date
Chlorine dioxide	RfD	2000
Chlorite (sodium salt)	RfD	2000
Cyclohexane	RfC	2003
Fluorine (soluble fluoride)	RfD	1987
Methyl ethyl ketone (MEK)	RfD	2003
Methyl ethyl ketone (MEK)	RfC	2003
Methyl isobutyl ketone (MIBK)	RfC	2003
Phenol	RfD	2002
Tetrahydrofuran	RfD	2012
1,1,1-Trichloroethane (Acute)	RfC	2007
1,1,1-Trichloroethane (Short-term)	RfC	2007
1,1,1-Trichloroethane (Subchronic)	RfD	2007
1,1,1-Trichloroethane (Subchronic)	RfC	2007
Trichloroethylene (developmental immunotoxicity)	RfD	2011
Trichloroethylene (heart malformations)	RfD	2011
Trichloroethylene (heart malformations)	RfC	2011

Substance	Type	Date
Acrylic acid	RfD	1994
Alar	RfD	1988
Avermectin B1	RfD	1989
Benomyl	RfD	1987
Boron and Compounds	RfD	2004
Bromobenzene (subchronic)	RfD	2009
Bromobenzene (subchronic)	RfC	2009
Caprolactam	RfD	1994
Carbon disulfide	RfD	1995
Chlorobenzilate	RfD	1989
Dicamba	RfD	1988
Ethyl chloride	RfC	1991
Ethylbenzene	RfC	1991
Glyphosate	RfD	1989
Methoxychlor	RfD	1992
Methylmercury (MeHg)	RfD	2001
Nitrate	RfD	1991

Nitrite	RfD	1987
Propargite (maternal and feto- toxicity)	RfD	1990
Resmethrin	RfD	1988
1,1,2,2-Tetrachloroethane (subchronic)	RfD	2010

Substance	Туре	Date
Ammonium sulfamate	RfD	1989
Baygon	RfD	1987
Ethephon	RfD	1988
Malathion	RfD	1987
Molinate	RfD	1988
Picloram	RfD	1987
Pirimiphos-methyl	RfD	1987

Substance	Type	Date
Bisphenol A.	RfD	1988
Dibutyl phthalate	RfD	1990
2,3-Dichloropropanol	RfD	1990
2,4-Dimethylphenol	RfD	1990

## Comment Information suggests duration of exposure not likely to be factor in toxicological outcomes Information suggests duration of exposure not likely to be factor in toxicological outcomes POD based on chronic study where a critical effect is associated with lifetime exposure POD based on chronic study where a critical effect is associated with lifetime exposure POD based on chronic study where a critical effect is associated with lifetime exposure Information suggests duration of exposure not likely to be factor in toxicological outcomes POD based on chronic study where a critical effect is associated with lifetime exposure POD based on chronic study where a critical effect is associated with lifetime exposure POD based on chronic study where a critical effect is associated with lifetime exposure POD based on chronic study where a critical effect is associated with lifetime exposure Information suggests duration of exposure not likely to be factor in toxicological outcomes POD based on chronic study where a critical effect is associated with lifetime exposure POD based on chronic study where a critical effect is associated with lifetime exposure POD based on chronic study where a critical effect is associated with lifetime exposure POD based on chronic study where a critical effect is associated with lifetime exposure POD based on chronic study where a critical effect is associated with lifetime exposure POD based on chronic study where a critical effect is associated with lifetime exposure Information suggests duration of exposure not likely to be factor in toxicological outcomes POD based on chronic study where a critical effect is associated with lifetime exposure POD based on chronic study where a critical effect is associated with lifetime exposure Information suggests duration of exposure not likely to be factor in toxicological outcomes POD based on chronic study where a critical effect is associated with lifetime exposure Information suggests duration of exposure not likely to be factor in toxicological outcomes POD based on chronic study where a critical effect is associated with lifetime exposure POD based on chronic study where a critical effect is associated with lifetime exposure POD based on chronic study where a critical effect is associated with lifetime exposure Information suggests duration of exposure not likely to be factor in toxicological outcomes POD based on chronic study where a critical effect is associated with lifetime exposure POD based on chronic study where a critical effect is associated with lifetime exposure Information suggests duration of exposure not likely to be factor in toxicological outcomes POD based on chronic study where a critical effect is associated with lifetime exposure

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	POD based on chronic study where a critical effect is associated with lifetime exposure

Comment
POD associated with a specific lifestage effect, including maternal/developmental toxicity
POD associated with a specific lifestage effect, including maternal/developmental toxicity
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POD associated with a specific lifestage effect, including maternal/developmental toxicity
POD associated with a specific lifestage effect, including maternal/developmental toxicity
Reference value applies to less than chronic exposure; UF-S not applicable
Reference value applies to less than chronic exposure; UF-S not applicable
Reference value applies to less than chronic exposure; UF-S not applicable
Reference value applies to less than chronic exposure; UF-S not applicable
POD associated with a specific lifestage effect, including maternal/developmental toxicity
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POD associated with a specific lifestage effect, including maternal/developmental toxicity

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POD associated with a specific lifestage effect, including maternal/developmental toxicity
Reference value applies to less than chronic exposure; UF-S not applicable
Reference value applies to less than chronic exposure; UF-S not applicable
POD associated with a specific lifestage effect, including maternal/developmental toxicity
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POD associated with a specific lifestage effect, including maternal/developmental toxicity
POD associated with a specific lifestage effect, including maternal/developmental toxicity
POD associated with a specific lifestage effect, including maternal/developmental toxicity
Reference value applies to less than chronic exposure; UF-S not applicable

#### Comment

POD for chronic RfV is based on subchronic exposure, but Summary does not address UF-S
POD for chronic RfV is based on subchronic exposure, but Summary does not address UF-S
POD for chronic RfV is based on subchronic exposure, but Summary does not address UF-S
POD for chronic RfV is based on subchronic exposure, but Summary does not address UF-S
Summary does not describe duration of study used to derive the POD
POD for chronic RfV is based on subchronic exposure, but Summary does not address UF-S
POD for chronic RfV is based on subchronic exposure, but Summary does not address UF-S

#### Comment

Info in summary suggests that UF discussion is incorrect, UF-S should be 1 (not 10)
Info in Summary suggests the use of a combined UF-S and UF-D vs. a separate UF-S
Info in Summary suggests the use of a combined UF-S and UF-D vs. a separate UF-S
Info in Summary suggests the use of a combined UF-S and UF-D vs. a separate UF-S

Uncertainty Associated with Extrapolation When the Database is Incomplete (UF<sub>D</sub>) Summary of Review IRIS Uncertainty Factors with a Unit or Null Value Support for EPA's Integrated Risk Information System July 31, 2012

<u>Links:</u>

Table 5A: UF is explicitly addressed in Summary in a way that supports  $UF_D = 1$ 

Line No.
11
11
12
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13
58
113
118
131
164
168
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208
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252
262
262
315
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365
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375
387
418
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428
454
493
515

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561
565

Table 5B: UF is not explicitly addressed, but "high" database confidence supports a  $UF_D = 1$ 

Line No.
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Count = Return to top

Table 5C: UF is not explicitly addressed; "medium" overall database confidence could be interpreted as inconsistent wi

Line No.
10
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Count = Return to top

Table 5D: UF is not explicitly addressed; "low" database confidence could be interpreted as inconsistent with  $UF_D = 1$ 

Line No.
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521
525
538
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562
567
146

Return to top

Table 5E: UF is not explicitly addressed; database confidence not specified; further review required to assess UF<sub>D</sub> value

Line No.	
147	

Count =

Table 5F: UF is explicitly addressed, but information in Summary suggests a change to current UF<sub>D</sub>; further review requ

Line No.	
182	
203	
226	

Table 5A: Explicitly addressed, supports UF = 1

Table 5B: Not addressed, "high" database confidence supports UF = 1

Table 5C: Not addressed, "medium" database confidence; further review required

Table 5D: Not addressed, "low" or "low/medium" database confidence; further review required

Table 5E: Not addressed, database confidence unspecified; further review required

<u>Table 5F: Explcitly addressed, but Summary does not support UF = 1; further review required</u>

Substance	Type	Date
Acrolein	RfD	2003
Acrolein	RfC	2003
Acrylamide	RfD	2010
Acrylamide	RfC	2010
Acrylic acid	RfD	1994
Bentazon (Basagran)	RfD	1998
Chloral hydrate	RfD	2000
Chlorine	RfD	1994
Chloroform	RfD	2001
Cyromazine	RfD	1987
2,2',3,3',4,4',5,5',6,6'-Decabromodiphenyl ether (BDE-209)	RfD	2008
1,1-Dichloroethylene (1,1-DCE)	RfD	2002
1,1-Dichloroethylene (1,1-DCE)	RfC	2002
1,3-Dichloropropene	RfD	2000
1,3-Dichloropropene	RfC	2000
Diesel engine exhaust	RfC	2003
1,2-Epoxybutane (EBU)	RfC	1992
2-Ethoxyethanol	RfC	1991
Ethylene glycol monobutyl ether (EGBE) (2-Butoxyethanol)	RfD	2010
Ethylene glycol monobutyl ether (EGBE) (2-Butoxyethanol)	RfC	2010
Hydrogen chloride	RfC	1995
Methyl methacrylate	RfC	1998
Methylmercury (MeHg)	RfD	2001
Molinate	RfD	1988
Monochloramine	RfD	1994
Nitrobenzene	RfC	2009
Pentachlorophenol	RfD	2010
Perchlorate (ClO4) and Perchlorate Salts	RfD	2005
Phosgene	RfC	2006
Propylene glycol monomethyl ether (PGME)	RfC	1991
2,3,7,8-Tetrachlorodibenzo-p-dioxin	RfD	2012
Toluene	RfC	2005

1,1,1-Trichloroethane (Acute)	RfC	2007
1,1,1-Trichloroethane (Short-term)	RfC	2007
Trichloroethylene (adult immunological effects)	RfD	2011
Trichloroethylene (adult immunological effects)	RfC	2011
Trichloroethylene (developmental immunotoxicity)	RfD	2011
Trichloroethylene (heart malformations)	RfD	2011
Trichloroethylene (heart malformations)	RfC	2011
Vinyl chloride	RfD	2000
Vinyl chloride	RfC	2000
Zinc and Compounds	RfD	2005

Substance	Type	Date
Acephate	RfD	1989
Acetochlor	RfD	1993
Alachlor	RfD	1993
Ally	RfD	1988
Amdro	RfD	1987
Apollo	RfD	1991
Assure	RfD	1991
Atrazine	RfD	1993
Avermectin B1	RfD	1989
Bayleton	RfD	1988
Baythroid	RfD	1988
Benomyl	RfD	1987
Biphenthrin	RfD	1988
Bisphenol A.	RfD	1988
Boron and Compounds	RfD	2004
Bromomethane	RfC	1992
Butylate	RfD	1994
Cadmium (water)	RfD	1991
Cadmium (food)	RfD	1991
Caprolactam	RfD	1994
Captafol	RfD	1987
Captan	RfD	1989
Carbofuran	RfD	1987
Carbosulfan	RfD	1987
Carboxin	RfD	1987
Chlorine dioxide	RfD	2000
Chlorite (sodium salt)	RfD	2000
Chlorsulfuron	RfD	1987
Cyclohexylamine	RfD	1988
Cyhalothrin/Karate	RfD	1988
Cypermethrin	RfD	1989

Dacthal	RfD	1994
Danitol	RfD	1994
Dicamba	RfD	1988
Diflubenzuron	RfD	1987
Dimethipin	RfD	1988
2,4-Dinitrotoluene	RfD	1992
Ethylene glycol	RfD	1987
Express	RfD	1989
Fenamiphos	RfD	1987
Fluorine (soluble fluoride)	RfD	1987
Fluridone	RfD	1987
Flurprimidol	RfD	1989
Fluvalinate	RfD	1988
Folpet	RfD	1988
Fosetyl-al	RfD	1988
Glyphosate	RfD	1989
Haloxyfop-methyl	RfD	1990
Harmony	RfD	1988
Hexachlorobenzene	RfD	1991
Hexahydro-1,3,5-trinitro-1,3,5-triazine (RDX)	RfD	1990
Imazaquin	RfD	1987
Iprodione	RfD	1988
Isoxaben	RfD	1991
Lactofen	RfD	1988
Linuron	RfD	1989
Londax	RfD	1988
Mercuric chloride (HgCl2)	RfD	1995
Metalaxyl	RfD	1987
Methidathion	RfD	1989
Methomyl	RfD	1987
Metolachlor	RfD	1990
Nitrate	RfD	1991
Nitrite	RfD	1987
Norflurazon	RfD	1987
Oryzalin	RfD	1989
Oxyfluorfen	RfD	1987
Paraquat	RfD	1988
Permethrin	RfD	1987
Phosmet	RfD	1987
Pirimiphos-methyl	RfD	1987
Prochloraz	RfD	1989
Propiconazole	RfD	1988
Pursuit	RfD	1990
Pydrin	RfD	1987
Resmethrin	RfD	1988
Salveignessid	RfD	1988
Selenious acid	RfD	1991

Selenium and Compounds	RfD	1991
Sethoxydim	RfD	1989
Simazine	RfD	1993
Systhane	RfD	1988
Tebuthiuron	RfD	1988
Terbutryn	RfD	1988
Thiophanate-methyl	RfD	1988
Tralomethrin	RfD	1989
Triallate	RfD	1990
Triasulfuron	RfD	1991
Tributyltin oxide (TBTO)	RfD	1997
Tridiphane	RfD	1987
Trifluralin	RfD	1989
Vinclozolin	RfD	1987
Vinyl acetate	RfC	1990

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ith  $UF_D = 1$ ; further review required

Substance	Type	Date
Acifluorfen, sodium	RfD	1987
Acrylic acid	RfC	1994
Alar	RfD	1988
Aldicarb	RfD	1993
Aldicarb sulfone	RfD	1993
Aldrin	RfD	1991
Aluminum phosphide	RfD	1987
Amitraz	RfD	1988
Aroclor 1254	RfD	1994
Asulam	RfD	1988
Baygon	RfD	1987
Benefin	RfD	1987
Benzidine	RfD	1991
Benzoic acid	RfD	1991
Bromoform	RfD	1993
Bromomethane	RfD	1992
Carbaryl	RfD	1991
Carbon disulfide	RfD	1995
Chloramben	RfD	1987
Chlorine cyanide	RfD	1987
Chlorobenzene	RfD	1990
Chlorothalonil	RfD	1988
Copper cyanide	RfD	1988
Cyanogen bromide	RfD	1988
Cyclohexanone	RfD	1987
Di (2-ethylhexyl)phthalate (DEHP)	RfD	1988

Dibromochloromethane	RfD	1992
1,4-Dichlorobenzene	RfC	1994
Dichlorodifluoromethane	RfD	1988
p,p'-Dichlorodiphenyltrichloroethane (DDT)	RfD	1988
2,4-Dichlorophenoxyacetic acid (2,4-D)	RfD	1987
1,2-Dichloropropane	RfC	1991
Dichlorvos	RfD	1994
Dieldrin	RfD	1991
Diphenamid	RfD	1987
Diphenylamine	RfD	1987
Diquat	RfD	1987
Disulfoton	RfD	1987
Endosulfan	RfD	1994
Endothall	RfD	1987
Endrin	RfD	1989
Ethephon	RfD	1988
Ethion	RfD	1989
S-Ethyl dipropylthiocarbamate (EPTC)	RfD	1987
Ethyl p-nitrophenyl phenylphosphorothioate (EPN)	RfD	1987
Flutolanil	RfD	1989
Fonofos	RfD	1987
Formaldehyde	RfD	1991
Glufosinate-ammonium	RfD	1987
Heptachlor epoxide	RfD	1991
gamma-Hexachlorocyclohexane (gamma-HCH)	RfD	1988
Hexachlorophene	RfD	1988
Imazalil	RfD	1987
Malathion	RfD	1987
Maleic anhydride	RfD	1988
Maleic hydrazide	RfD	1987
Manganese	RfD	1995
Methamidophos	RfD	1987
Methyl parathion	RfD	1987
2-Methylphenol	RfD	1992
3-Methylphenol	RfD	1992
Metribuzin	RfD	1993
Molybdenum	RfD	1992
Naled	RfD	1987
Oxadiazon	RfD	1987
Oxamyl	RfD	1987
Paclobutrazol	RfD	1987
Phenmedipham	RfD	1990
Phosphine	RfD	1995
Phosphoric acid	RfC	1995
Phthalic anhydride	RfD	1988
Picloram	RfD	1987
Pronamide	RfD	1987

Propargite (maternal and feto- toxicity)	RfD	1990
Propylene oxide	RfC	1991
Pyridine	RfD	1987
Quinalphos	RfD	1987
Rotenone	RfD	1988
Sodium azide	RfD	1987
Sodium diethyldithiocarbamate	RfD	1988
Styrene	RfD	1992
Terbacil	RfD	1987
2,3,4,6-Tetrachlorophenol	RfD	1988
Tetrachlorovinphos	RfD	1987
Tetraethyl lead	RfD	1987
Thiobencarb	RfD	1987
1,2,4-Trichlorobenzene	RfD	1992
1,1,2-Trichloroethane	RfD	1991
Trichlorofluoromethane	RfD	1987
2(2,4,5-Trichlorophenoxy) propionic acid (2,4,5-TP)	RfD	1988
1,3,5-Trinitrobenzene	RfD	1997
2,4,6-Trinitrotoluene (TNT)	RfD	1989
Uranium, soluble salts	RfD	1989
Zinc cyanide	RfD	1987
Zineb	RfD	1987

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# ; further review required

Substance	Type	Date
Allyl alcohol	RfD	1988
Ametryn	RfD	1987
Antimony	RfD	1991
Benzaldehyde	RfD	1988
1,1-Biphenyl	RfD	1991
n-Butanol	RfD	1991
Butyl benzyl phthalate	RfD	1989
2-Chlorophenol	RfD	1988
o-Chlorotoluene	RfD	1990
Chromium(III), insoluble salts	RfD	1988
Chromium(VI) - oral	RfD	1998
Demeton	RfD	1987
1,4-Dibromobenzene	RfD	1987
2,4-Dichlorophenol	RfD	1988
4-(2,4-Dichlorophenoxy)butyric acid (2,4-DB)	RfD	1987
Diethyl phthalate	RfD	1988
Diisopropyl methylphosphonate (DIMP)	RfD	1989
Dimethyl terephthalate (DMT)	RfD	1987
N-N-Dimethylaniline	RfD	1987

2,6-Dimethylphenol	RfD	1988
3,4-Dimethylphenol	RfD	1988
4,6-Dinitro-o-cyclohexyl phenol	RfD	1988
2,4-Dinitrophenol	RfD	1991
Dinoseb	RfD	1989
Ethyl acetate	RfD	1987
Ethylbenzene	RfD	1991
Ethylphthalyl ethylglycolate (EPEG)	RfD	1987
Furan	RfD	1987
Furfural	RfD	1988
Hexabromobenzene	RfD	1988
Isobutyl alcohol	RfD	1987
Isophorone	RfD	1992
Isopropalin	RfD	1987
Maneb	RfD	1988
Methanol	RfD	1988
Octabromodiphenyl ether	RfD	1990
Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine (HMX)	RfD	1989
Pentabromodiphenyl ether	RfD	1990
Pentachlorobenzene	RfD	1992
m-Phenylenediamine	RfD	1987
Phenylmercuric acetate	RfD	1987
Prometon	RfD	1988
Propachlor	RfD	1987
Silver	RfD	1991
Silver cyanide	RfD	1987
Strychnine	RfD	1987
1,2,4,5-Tetrachlorobenzene	RfD	1988
Tetraethyldithiopyrophosphate	RfD	1988
1,2,4-Tribromobenzene	RfD	1987
1,1,2-Trichloro-1,2,2-trifluoroethane (CFC-113)	RfD	1988
2,4,5-Trichlorophenol	RfD	1991
Vanadium pentoxide	RfD	1988
Vernam	RfD	1987
Warfarin	RfD	1987
Zinc phosphide	RfD	1988
Chromium(VI) - inhalation/acid mists and aerosols	RfC	1998

Substance	Type	Date
Chromium(VI) - inhalation/particulates	RfC	1998

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Substance	Туре	Date
Dibutyl phthalate	RfD	1990
2,3-Dichloropropanol	RfD	1990
2,4-Dimethylphenol	RfD	1990



Comment
Summary concludes high confidence in database used to derive RfD/RfC
Summary concludes high confidence in database used to derive RfD/RfC
Summary concludes high confidence in database used to derive RfD/RfC
Summary concludes high confidence in database used to derive RfD/RfC
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Summary concludes high confidence in database used to derive RfD/RfC
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Summary concludes high confidence in database used to derive RfD/RfC

Comment
Summary concludes medium confidence in database used to derive RfD/RfC
Summary concludes medium confidence in database used to derive RfD/RfC
Summary concludes medium confidence in database used to derive RfD/RfC
Summary concludes medium confidence in database used to derive RfD/RfC
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Summary concludes medium confidence in database used to derive RfD/RfC
Summary concludes medium confidence in database used to derive RfD/RfC
Summary concludes medium confidence in database used to derive RfD/RfC
Summary concludes medium confidence in database used to derive RfD/RfC
Summary concludes medium confidence in database used to derive RfD/RfC
Summary concludes medium confidence in database used to derive RfD/RfC

Comment
Summary concludes low confidence in database used to derive RfD/RfC
Summary concludes low confidence in database used to derive RfD/RfC
Summary concludes low confidence in database used to derive RfD/RfC
Summary concludes low confidence in database used to derive RfD/RfC
Summary concludes low confidence in database used to derive RfD/RfC
Summary concludes low confidence in database used to derive RfD/RfC
Summary concludes low confidence in database used to derive RfD/RfC
Summary concludes low confidence in database used to derive RfD/RfC
Summary concludes low confidence in database used to derive RfD/RfC
Summary concludes low confidence in database used to derive RfD/RfC
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Summary concludes low confidence in database used to derive RfD/RfC
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Summary concludes low confidence in database used to derive RfD/RfC
Summary concludes low confidence in database used to derive RfD/RfC
Summary concludes low confidence in database used to derive RfD/RfC
Summary concludes low confidence in database used to derive RfD/RfC
Summary concludes low confidence in database used to derive RfD/RfC
Summary concludes low confidence in database used to derive RfD/RfC
Summary concludes low-to-medium confidence in database used to derive RfD/RfC
Summary concludes low confidence in database used to derive RfD/RfC
Summary concludes low confidence in database used to derive RfD/RfC
Summary concludes low confidence in database used to derive RfD/RfC

## Comment

Summary does not specify confidence in database used to derive RfD/RfC

#### Comment

Info in Summary suggests the use of a combined UF-S and UF-D vs. a separate UF-D

Info in Summary suggests the use of a combined UF-S and UF-D vs. a separate UF-D

Info in Summary suggests the use of a combined UF-S and UF-D vs. a separate UF-D

## **Spreadsheet Codes**

## Input Comments

	Intr	aspec	ies	lr	ntersp	ecies		Lto	N		SubC
	Name	Date	Comment	Name	Date	Comment	Name	Date	Comment	Name	Date
RfD	2	3	7	2	3	10	2	3	13	2	3
RfC	25	3	29	25	3	32	25	3	35	25	3

#### **Comment Codes**

#### Master List Code Comment Description

MINDSTEL FISE COME	Comment Description
Cross-sectional	POD based on many cross-sections of human populations
Human exposure	POD based on epidemiological or other type of human study
N as POD	An NOAEL/NOEL was used as the POD
BMR	Effect-level addressed as consideration in selecting a BMR for BMD/BMC modeling
BMR post-03	Benchmark modeling used, post-EPA policy regarding no need for UF-L (see Table 3C)
Other UF	Benchmark modeling used; "other" UF used to capture effect-level considerations
LtoN v SubC	Info in summary suggests that UF discussion is incorrect, UF-L should be 10
BMR pre-03	Benchmark modeling used, pre-EPA policy regarding no need for UFL (see Table 3C)
LOAEL	POD is an LOAEL, but Summary does not address UF for effect-level extrapolation
BMR 03	Benchmark modeling used, transitional period re: need for UFL (see Table 3C)
high DB conf	Summary concludes high confidence in database used to derive RfD/RfC
med DB conf	Summary concludes medium confidence in database used to derive RfD/RfC
low DB conf	Summary concludes low confidence in database used to derive RfD/RfC
lo/md DB conf	Summary concludes low-to-medium confidence in database used to derive RfD/RfC
Comb v Sep	Info in Summary suggests the use of a combined UF-S and UF-D vs. a separate UF-D
DB conf unsp	Summary does not specify confidence in database used to derive RfD/RfC
Dur not factor	Information suggests duration of exposure not likely to be factor in toxicological outcomes
Chron study/CE	POD based on chronic study where a critical effect is associated with lifetime exposure
Lifestage effect	POD associated with a specific lifestage effect, including maternal/developmental toxicity
<chron rfv<="" td=""><td>Reference value applies to less than chronic exposure; UF-S not applicable</td></chron>	Reference value applies to less than chronic exposure; UF-S not applicable
Rep/Mat/Dev	Unclear whether should be characterized as reproductive, maternal or development toxicit
Subchron	POD for chronic RfV is based on subchronic exposure, but Summary does not address UF-S
Unk duration	Summary does not describe duration of study used to derive the POD
SubC v LtoN	Info in summary suggests that UF discussion is incorrect, UF-S should be 1 (not 10)
Comb w DB	Info in Summary suggests the use of a combined UF-S and UF-D vs. a separate UF-S

:hr	Database			
Comment	Name	Date	Comment	
18	2	3	22	
40	25	3	44	

SUBSTANCE_NAME	EXP_DOSE_TYPE_NAME
Acrylamide	BMDL
Acrylamide	BMDL
Antimony trioxide	BMC
Barium and Compounds	BMDL
Benzene	BMDL
Benzene	BMCL
Beryllium and compounds	BMD
Boron and Compounds	BMDL
Bromobenzene	BMCL
Bromobenzene	BMDL
Butadiene	BMCL
Carbon disulfide	BMC
Carbon tetrachloride	BMCL
Carbon tetrachloride	BMD
Cerium Oxide and Cerium Compounds	BMCL
Chlordecone (Kepone)	BMDL
Chloroform	BMDL
Chloroprene	BMDL
Chromium(VI)	BMC
Cyclohexane	BMCL
Dibromoethane	BMCL
Dichloroethylene  Dichloroethylene	BMDL BMDL
Dichloroethylene  Dichloroethylene (1.1 DCF)	
Dichloroethylene (1,1-DCE)	BMDL BMCL
Dichloroethylene (1,1-DCE)  Dichloromethane	BMDL
Dichloromethane	BMDL
Dichloropropene	BMDL
Dichloropropene	BMCL
Ethylene glycol monobutyl ether (EGBE) (2-Butoxyethanol)	BMCL
Ethylene glycol monobutyl ether (EGBE) (2-Butoxyethanol)	BMDL
Hexachlorocyclopentadiene (HCCPD)	BMDL
Hexachloroethane	BMDL
Hexane	BMCL
Hexanone	BMDL
Hexanone	BMCL
Hydrogen Cyanide and Cyanide Salts	BMDL
Methyl ethyl ketone (MEK)	LEC
Methyl ethyl ketone (MEK)	LED
Methyl methacrylate	BMC
Methylene Diphenyl Diisocyanate (monomeric MDI) and polymeric MDI (PMDI)	BMC
Methylmercury (MeHg)	BMDL
Methylmercury (MeHg)	BMDL
Methylnaphthalene	BMD
Nitrobenzene	BMCL
Nitrobenzene	BMDL

Phenol Phosgene BMD Phosphoric acid Propionaldehyde Tetrabromodiphenyl ether (BDE-47) Tetrachloroethane BMC Tetrafluoroethane Tetraflydrofuran Toluene BMD Tributyltin oxide (TBTO) Trichloroacetic acid Trichloroethylene Trichloropropane Trichloropropane BMD Trichloropropane BMD Trichloropropane BMD Trichloropropane BMD
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IRIS SUB ID	SUBSTANCE NMBR
601	442
603	443
597	354
597	354
593	290
42	521
43	128
8	205
8	205
45	321
47	518
49	192
65	364
65	364
67	286
67	286
70	2
70	2
71	206
99	515
100	129
101	287
104	3
105	312
106	130
109	288
111	4
112	387
114	5
115	207
122	208
125	440
127	334
134 139	422 517
142	516
842	1007
144	7
150	350
156	610
158	434
165	6
167	676
170	8
196	473
201	462
	, 022

207	649
208	389
216	278
221	672
232	371
233	335
237	284
238	209
243	381
246	351
248	10
254	9
265	210
275	131
276	132
277	133
279	11
280	134
281	454
283	332
9	276
9	276
285	135
5	136
292	453
294	461
295	452
296	355
297	388
298	393
1	12
1	12
372	211
373	333
374	13
376	407
375	522
381	137
379	375
382	356
383	410
608	1002
384	514
850	1020
850	1020
850	1020
850	1020

385	532
392	213
400	490
402	214
2	15
2	15
424	533
427	289
428	138
429	139
430	140
431	293
432	215
433	417
434	16
435	587
436	141
436	141
437	17
11	357
438	216
439	18
442	19
443	218
445 445	217 217
445 446	20
446	20
449	617
451	21
452	22
1431	1018
453	304
454	23
455	142
455	142
915	1017
456	406
457	405
458	24
459	496
459	496
460	648
461	661
462	537
483	320
484	399

485	400
492	415
493	416
495	430
498	657
299	25
499	245
580	463
500	303
501	623
502	624
503	625
861	1021
506	143
509	412
511	283
3	26
513	27
514	28
6	144
6	144
6	144
515	455
516	395
519	368
521	29
522	360
523	464
524	306
524	306
525	145
526	31
527	32
527	32
528	358
619	1005
529	219
530	319
531	279
532	380
533	220
534	221
538	146
541	34
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545	36
550	536

551	616
552	456
554	429
555	414
556	148
557	222
558	535
560	491
561	361
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564	38
563	223
562	654
565	408
567	552
566	447
568	504
569	40
570	347
595	328
7	147
589	149
599	409
594	314
600	418
577	39
577	39
584	70
584	70
579	41
578	33
590	150
605	601
602	465
55	224
55	224
39	151
39	151
54	324
48	225
56	642
68	226
80	615
76	613
77	643
547	420

549	14
79	336
78	227
82	665
87	310
90	43
96	44
97	353
121	365
124	46
128	228
130	229
131	538
132	511
133	466
146	231
145	230
148	322
162	633
161	318
163	152
168	524
166	397
177	47
175	326
179	232
180	48
174	49
181	153
184	154
182	531
186	233
188	234
189	235
192	155
193	363
206	50
204	630
200	297
199	156
211	513
215	157
213	629
212	523
218	237
219	423
222	236

223	51
223	51
226	528
227	238
220	500
220	500
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228	239
229	631
230	52
231	379
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251	241
253	444
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257	53
260	54
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262	394
263	281
264	242
266	348
267	158
269	419
272	55
273	159
300	56
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302	362
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312	337
313	243
314	160
315	607
316	161
317	494
318	374
319	58
320	162
321	244
322	163
325	164
326	65
327	165

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611	59
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333	167
333	167
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351	638
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1464	1019
1464	1019
355	246
357	352
359	396
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364	60
363	61
362	508
365	168
366	62
367	457
368	291
369	169
582	63
583	64
604	530
596	339
609	280
69	277
50	682
46	170
73	171
75	248
81	307
85	172
89	249
92	373
92	373
108	340
110	692
113	370
116	366
118	367
129	68
137	359
140	250
143	305

169	341
173	69
176	369
581	525
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613	1003
183	309
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185	71
190	173
203	527
205	1000
205	1000
194	174
195	545
210	325
209	67
214	66
225	529
217	386
191	73
191	73
620	1006
241	302
239	300
240	301
242	74
247	75
252	251
256	298
258	425
259	644
249	175
14	436
14	436
268	384
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271	272
304	273
306	271
309	176
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323	70 77
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328	76 79
328	79 79
328	79

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361	84
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387	183
388	327
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391	85
393	431
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396	683
397	185
398	459
399	477
403	88
405	87
406	89
426	255
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441	91
448	90
448	90
444	697
450	308
447	256
465	257
10	294

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585	93
598	378
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592	258
587	95
588	96
591	186
53	296
53	296
66	468
72	187
74	260
83	282
371	542
940	1011
86	543
88	544
91	404
287	403
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95	188
286	445
102	261
103	189
615	1004
117	509
119	295
120	275
123	647
126	343
135	344
138	345
141	97
149	472
153	458
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151	190
154	99
155	100
157	263
159	191
160	101
164	102
171	469
172	550

282	103
284	104
284	104
245	342
289	264
288	105
290	285
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378	107
407	432
416	265
408	193
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415	194
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413	330
412	656
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419 420 421 411 417 422	112 113 114 110 115 116
419 420 421 411 417 422 423	112 113 114 110 115 116 266
419 420 421 411 417 422 423 425	112 113 114 110 115 116 266 117
419 420 421 411 417 422 423 425 463	112 113 114 110 115 116 266 117
419 420 421 411 417 422 423 425 463 466	112 113 114 110 115 116 266 117 267
419 420 421 411 417 422 423 425 463 466	112 113 114 110 115 116 266 117 267 118
419 420 421 411 417 422 423 425 463 466 466 482	112 113 114 110 115 116 266 117 267 118 118 503
419 420 421 411 417 422 423 425 463 466	112 113 114 110 115 116 266 117 267 118
419 420 421 411 417 422 423 425 463 466 466 482	112 113 114 110 115 116 266 117 267 118 118 503
419 420 421 411 417 422 423 425 463 466 466 482 481	112 113 114 110 115 116 266 117 267 118 118 503 346
419 420 421 411 417 422 423 425 463 466 466 482 481 478	112 113 114 110 115 116 266 117 267 118 118 503 346 385
419 420 421 411 417 422 423 425 463 466 466 482 481 478	112 113 114 110 115 116 266 117 267 118 118 503 346 385 195
419 420 421 411 417 422 423 425 463 466 466 482 481 478 477	112 113 114 110 115 116 266 117 267 118 118 503 346 385 195 510
419 420 421 411 417 422 423 425 463 466 466 482 481 478 477 474	112 113 114 110 115 116 266 117 267 118 118 503 346 385 195 510 196
419 420 421 411 417 422 423 425 463 466 466 482 481 478 477 474 473 472	112 113 114 110 115 116 266 117 267 118 118 503 346 385 195 510 196 534
419 420 421 411 417 422 423 425 463 466 466 482 481 478 477 474 473 472 471	112 113 114 110 115 116 266 117 267 118 118 503 346 385 195 510 196 534 492
419 420 421 411 417 422 423 425 463 466 466 482 481 478 477 474 473 472 471 496 475	112 113 114 110 115 116 266 117 267 118 118 503 346 385 195 510 196 534 492 349 123
419 420 421 411 417 422 423 425 463 466 466 482 481 478 477 474 473 472 471 496	112 113 114 110 115 116 266 117 267 118 118 503 346 385 195 510 196 534 492 349

490	433
497	198
488	197
488	197
	197
	197
	197
487	199
487	199
487	199
487	199
487	199
486	120
468	121
469	122
470	323
476	262
480	200
480	200
479	372
504	30
505	124
507	520
508 510	639
510	640 268
512	614
518	316
520	269
535	259
13	421
536	125
539	201
543	126
544	512
546	671
548	1001
548	1001
553	202
573	460
574	270
574	270
575	426
576	127
571	203
572	204
2393	1008

2387	1010
2391	1009

Lookup Code

Acenaphthene-RFD

Acenaphthylene-

Acephate-RFC

Acephate-RFD

Acetaldehyde-RFC

Acetochlor-RFD

Acetone-RFD

Acetonitrile-RFD

Acetonitrile-RFC

Acetophenone-RFD

Acetyl chloride-

Acifluorfen, sodium-RFD

Acrolein-RFC

Acrolein-RFD

Acrylamide-RFD

Acrylamide-RFC

Acrylic acid-RFC

Acrylic acid-RFD

Acrylonitrile-RFC

Adiponitrile-

Alachlor-RFD

Alar-RFD

Aldicarb-RFD

Aldicarb sulfone-RFD

Aldrin-RFD

Ally-RFD

Allyl alcohol-RFD

Allyl chloride-RFC

Aluminum phosphide-RFD

Amdro-RFD

Ametryn-RFD

Aminopyridine-

Amitraz-RFD

Ammonia-RFC

Ammonium acetate-

Ammonium methacrylate-

Perchlorate (ClO4) and Perchlorate Salts-RFD

Ammonium sulfamate-RFD

Aniline-RFC

Anisidine-

Anthracene-RFD

Antimony-RFD

Antimony trioxide-RFC

Apollo-RFD

Aramite-

Aroclor 1016-RFD

Aroclor 1248-

Aroclor 1254-RFD

Arsenic, inorganic-RFD

Arsine-RFC

Asbestos-

Assure-RFD

Asulam-RFD

Atrazine-RFD

Avermectin B1-RFD

Azobenzene-

Barium and Compounds-RFD

Barium cyanide-

Baygon-RFD

Bayleton-RFD

Baythroid-RFD

Benefin-RFD

Benomyl-RFD

Bentazon (Basagran)-RFD

Benz[a]anthracene-

Benzaldehyde-RFD

Benzene-RFD

Benzene-RFC

Benzidine-RFD

Benzo[a]pyrene (BaP)-

Benzo[b]fluoranthene-

Benzo[g,h,i]perylene-

Benzo[k]fluoranthene-

Benzoic acid-RFD

Benzotrichloride-

Benzyl chloride-

Beryllium and compounds-RFD

Beryllium and compounds-RFC

Bidrin-RFD

Biphenthrin-RFD

1,1-Biphenyl-RFD

Bis(2-chloro-1-methylethyl) ether-RFD

Bis(2-chloroethoxy)methane-

Bis(chloroethyl)ether (BCEE)-

Bis(chloromethyl)ether (BCME)-

Bisphenol A.-RFD

Boron and Compounds-RFD

Bromate-RFD

Brominated dibenzofurans-

Bromobenzene (subchronic)-RFC

Bromobenzene (subchronic)-RFD

Bromobenzene (chronic)-RFC

Bromobenzene (chronic)-RFD

Bromochloromethane-

Bromodichloromethane-RFD

Bromodiphenyl ether-

Bromoform-RFD

Bromomethane-RFC

Bromomethane-RFD

Bromotrichloromethane-

Bromoxynil-RFD

Bromoxynil octanoate-RFD

1,3-Butadiene-RFC

n-Butanol-RFD

Butyl benzyl phthalate-RFD

Butylate-RFD

Butylchloride-

Butylphthalyl butylglycolate (BPBG)-RFD

Cacodylic acid-

Cadmium (water)-RFD

Cadmium (food)-RFD

Calcium cyanide-RFD

Caprolactam-RFD

Captafol-RFD

Captan-RFD

Carbaryl-RFD

Carbofuran-RFD

Carbon disulfide-RFC

Carbon disulfide-RFD

Carbon tetrachloride-RFD

Carbon tetrachloride-RFC

Carbonyl sulfide-

Carbosulfan-RFD

Carboxin-RFD

Cerium Oxide and Cerium Compounds-RFC

Chloral hydrate-RFD

Chloramben-RFD

Chlordane (Technical)-RFD

Chlordane (Technical)-RFC

Chlordecone (Kepone)-RFD

Chlorimuron-ethyl-RFD

Chlorine-RFD

Chlorine cyanide-RFD

Chlorine dioxide-RFC

Chlorine dioxide-RFD

Chlorite (sodium salt)-RFD

1-Chloro-1,1-difluoroethane-RFC

2-Chloroacetophenone-RFC

p-Chloroaniline-RFD

Chlorobenzene-RFD

Chlorobenzilate-RFD

Chlorobutane-

Chlorobutane-

Chlorocyclopentadiene-

Chlorodifluoromethane-RFC

Chloroform-RFD

Chloromethyl methyl ether (CMME)-

beta-Chloronaphthalene-RFD

2-Chlorophenol-RFD

Chlorophenyl methyl sulfide-

Chlorophenyl methyl sulfone-

Chlorophenyl methyl sulfoxide-

Chloroprene-RFC

Chlorothalonil-RFD

o-Chlorotoluene-RFD

Chlorpropham-RFD

Chlorpyrifos-

Chlorsulfuron-RFD

Chromium(III), insoluble salts-RFD

Chromium(VI) - oral-RFD

Chromium(VI)-RFC

Chromium(VI)-RFC

Chrysene-

Coke oven emissions-

Copper-

Copper cyanide-RFD

Creosote-

Crotonaldehyde-

Cumene-RFD

Cumene-RFC

Cyanazine-

Cyanide, free-RFD

Cyanogen-RFC

Cyanogen-RFD

Cyanogen bromide-RFD

Cyclohexane-RFC

Cyclohexanone-RFD

Cyclohexylamine-RFD

Cyhalothrin/Karate-RFD

Cypermethrin-RFD

Cyromazine-RFD

Dacthal-RFD

Dalapon, sodium salt-RFD

Danitol-RFD

2,2',3,3',4,4',5,5',6,6'-Decabromodiphenyl ether (BDE-209)-RFD

Demeton-RFD

Diaminotoluene-

Diazomethane-

Dibenz[a,h]anthracene-

Dibenzofuran-

Dibromo-3-chloropropane (DBCP)-RFC

1,4-Dibromobenzene-RFD

Dibromochloromethane-RFD

Dibromodichloromethane-

Dibromodiphenyl ether-

1,2-Dibromoethane-RFC

1,2-Dibromoethane-RFC

1,2-Dibromoethane-RFD

Dibutyl phthalate-RFD

Dicamba-RFD

Dichloroacetic acid-RFD

1,2-Dichlorobenzene-RFD

1,2-Dichlorobenzene-RFC

1,2-Dichlorobenzene-

Dichlorobenzidine-

Dichlorodifluoromethane-RFD

Dichlorodiphenyl dichloroethane (DDD)-

Dichlorodiphenyldichloroethylene (DDE)-

p,p'-Dichlorodiphenyltrichloroethane (DDT)-RFD

Dichloroethane-

Dichloroethane-

cis-1,2-Dichloroethylene-RFD

trans-1,2-Dichloroethylene-RFD

1,1-Dichloroethylene (1,1-DCE)-RFC

1,1-Dichloroethylene (1,1-DCE)-RFD

Dichloromethane-RFD

Dichloromethane-RFC

2,4-Dichlorophenol-RFD

4-(2,4-Dichlorophenoxy)butyric acid (2,4-DB)-RFD

2,4-Dichlorophenoxyacetic acid (2,4-D)-RFD

Dichloropropane-RFC

2,3-Dichloropropanol-RFD

1,3-Dichloropropene-RFD

1,3-Dichloropropene-RFC

Dichlorvos-RFD

Dichlorvos-RFC

Dicofol-

Dieldrin-RFD

Diesel engine exhaust-RFC

Diethyl phthalate-RFD

Diethyl sulfate-

Diethyl-p-nitrophenylphosphate-

Diethylene glycol dinitrate (DEGDN)-

Di(2-ethylhexyl)adipate-RFD

Di (2-ethylhexyl)phthalate (DEHP)-RFD

Difenzoquat-RFD

Diflubenzuron-RFD

1,1-Difluoroethane-RFC

Diisopropyl methylphosphonate (DIMP)-RFD

Dimethipin-RFD

Dimethoate-RFD

Dimethyl phthalate-

Dimethyl sulfate-

Dimethyl terephthalate (DMT)-RFD

Dimethylamine-

N-N-Dimethylaniline-RFD

Dimethylbenzidine-

Dimethylformamide-RFC

2,4-Dimethylphenol-RFD

2,6-Dimethylphenol-RFD

3,4-Dimethylphenol-RFD

4,6-Dinitro-o-cyclohexyl phenol-RFD

m-Dinitrobenzene-

m-Dinitrobenzene-RFD

2,4-Dinitrophenol-RFD

2,4-Dinitrotoluene-RFD

Dinitrotoluene mixture-

Dinoseb-RFD

1,4-Dioxane-RFD

Diphenamid-RFD

Diphenylamine-RFD

Diphenylhydrazine-

Diquat-RFD

Disulfoton-RFD

1,4-Dithiane-RFD

Diuron-RFD

Dodine-RFD

Endosulfan-RFD

Endothall-RFD

Endrin-RFD

Epichlorohydrin-RFC

1,2-Epoxybutane (EBU)-RFC

Ethephon-RFD

Ethion-RFD

2-Ethoxyethanol-RFC

Ethyl acetate-RFD

Ethyl carbamate-

Ethyl chloride-RFC

S-Ethyl dipropylthiocarbamate (EPTC)-RFD

Ethyl ether-RFD

Ethyl p-nitrophenyl phenylphosphorothioate (EPN)-RFD

Ethylbenzene-RFC

Ethylbenzene-RFD

Ethylene diamine-

Ethylene glycol-RFD

Ethylene glycol monobutyl ether (EGBE) (2-Butoxyethanol)-RFD

Ethylene glycol monobutyl ether (EGBE) (2-Butoxyethanol)-RFC

Ethylene oxide-

Ethylene thiourea (ETU)-RFD

Ethyleneimine-

Ethylphthalyl ethylglycolate (EPEG)-RFD

Express-RFD

Fenamiphos-RFD

Fluometuron-RFD

Fluoranthene-RFD

Fluorene-RFD

Fluorine (soluble fluoride)-RFD

Fluridone-RFD

Flurprimidol-RFD

Flutolanil-RFD

Fluvalinate-RFD

Folpet-RFD

Fomesafen-

Fonofos-RFD

Formaldehyde-RFD

Formic acid-

Fosetyl-al-RFD

Furan-RFD

Furfural-RFD

Furmecyclox-

Glufosinate-ammonium-RFD

Glycidaldehyde-RFD

Glyphosate-RFD

Haloxyfop-methyl-RFD

Harmony-RFD

Heptachlor-RFD

Heptachlor epoxide-RFD

Heptane-

Hexabromobenzene-RFD

2,2',4,4',5,5'-Hexabromodiphenyl ether (BDE-153)-

Hexachlorobenzene-RFD

Hexachlorobutadiene-

Hexachlorocyclohexane (alpha-HCH)-

Hexachlorocyclohexane (beta-HCH)-

Hexachlorocyclohexane (delta-HCH)-

Hexachlorocyclohexane (epsilon-HC)-

Hexachlorocyclohexane (gamma-HCH)-RFD

Hexachlorocyclohexane (t-HCH)-

Hexachlorocyclopentadiene (HCCPD)-RFC

Hexachlorocyclopentadiene (HCCPD)-RFD

Hexachlorodibenzo-p-dioxin (HxCDD), mixture of 1,2,3,6,7,8-HxCDD and 1,2,3,7,8,9-HxCDD-

Hexachloroethane-RFC

Hexachloroethane-RFD

Hexachlorophene-RFD

Hexahydro-1,3,5-trinitro-1,3,5-triazine (RDX)-RFD

1,6-Hexamethylene diisocyanate-RFC

Hexane-RFC

2-Hexanone-RFC

2-Hexanone-RFD

Hexazinone-RFD

Hydrazine/Hydrazine sulfate-

Hydrogen chloride-RFC

Hydrogen cyanide-RFC

Hydrogen cyanide-RFD

Hydrogen sulfide-RFC

Hydroquinone-

Imazalil-RFD

Imazaquin-RFD

Indeno[1,2,3-cd]pyrene-

Iprodione-RFD

Isobutyl alcohol-RFD

Isophorone-RFD

Isopropalin-RFD

Isopropyl methyl phosphonic acid (IMPA)-RFD

Isoxaben-RFD

Lactofen-RFD

Lead and compounds (inorganic)-

Limonene-

Linuron-RFD

Londax-RFD

Malathion-RFD

Maleic anhydride-RFD

Maleic hydrazide-RFD

Maneb-RFD

Manganese-RFD

Manganese-RFC

Mepiquat chloride-RFD

Mercuric chloride (HgCl2)-RFD

Mercury, elemental-RFC

Merphos-RFD

Merphos oxide-RFD

Metalaxyl-RFD

Methacrylonitrile-RFD

Methamidophos-RFD

Methanol-RFD

Methidathion-RFD

Methomyl-RFD

Methoxychlor-RFD

Methoxyethanol-RFC

Methyl acrylate-

Methyl chloride-RFC

Methyl chlorocarbonate-

Methyl ethyl ketone (MEK)-RFC

Methyl ethyl ketone (MEK)-RFD

Methyl isobutyl ketone (MIBK)-RFC

Methyl isocyanate-

Methyl methacrylate-RFD

Methyl methacrylate-RFC

Methyl parathion-RFD

Methyl tert-butyl ether (MTBE)-RFC

Methyl-4-chlorophenoxy) butyric acid (MCPB)-RFD

Methyl-4-chlorophenoxy)propionic acid (MCPP)-RFD

2-Methyl-4-chlorophenoxyacetic acid (MCPA)-RFD

Methylene Diphenyl Diisocyanate (monomeric MDI) and polymeric MDI (PMDI)-RFC

Methylene bis(N,N'-dimethyl)aniline-

Methylmercury (MeHg)-RFD

Methylmercury (MeHg)-RFD

2-Methylnaphthalene-RFD

Methylphenol-

Methylphenol-RFD

Methylphenol-RFD

Metolachlor-RFD

Metribuzin-RFD

Mirex-RFD

Molinate-RFD

Molybdenum-RFD

Monochloramine-RFD

Naled-RFD

Naphthalene-RFD

Naphthalene-RFC

Napropamide-RFD

Nickel carbonyl-

Nickel refinery dust-

Nickel subsulfide-

Nickel, soluble salts-RFD

Nitrapyrin-

Nitrate-RFD

Nitric oxide-

Nitrite-RFD

Nitrobenzene-RFC

Nitrobenzene-RFC

Nitrobenzene-RFD

Nitrogen dioxide-

Nitroguanidine-RFD

Nitrophenol-

2-Nitropropane-RFC

Nitroso-N-methylethylamine-

Nitroso-di-n-butylamine-

Nitrosodi-N-propylamine-

Nitrosodiethanolamine-

Nitrosodiethylamine-

Nitrosodimethylamine-

Nitrosodiphenylamine-

Nitrosopyrrolidine-

Nonabromodiphenyl ether-

Norflurazon-RFD

NuStar-RFD

Octabromodiphenyl ether-RFD

Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine (HMX)-RFD

Oryzalin-RFD

Oxadiazon-RFD

Oxamyl-RFD

Oxyfluorfen-RFD

Paclobutrazol-RFD

Paraquat-RFD

Parathion-

Pendimethalin-RFD

Pentabromodiphenyl ether-RFD

Pentachlorobenzene-RFD

Pentachlorocyclopentadiene-

Pentachloronitrobenzene (PCNB)-RFD

Pentachlorophenol-RFD

Pentafluoroethane-

Permethrin-RFD

Phenanthrene-

Phenmedipham-RFD

Phenol-RFD

Phenylenediamine-RFD

Phenylmercuric acetate-RFD

Phosalone-

Phosgene-RFC

Phosmet-RFD

Phosphine-RFD

Phosphine-RFC

Phosphoric acid-RFC

Phthalic anhydride-RFD

Picloram-RFD

Pirimiphos-methyl-RFD

Polychlorinated biphenyls (PCBs)-

Potassium cyanide-RFD

Potassium silver cyanide-RFD

Prochloraz-RFD

Prometon-RFD

Prometryn-RFD

Pronamide-RFD

Propachlor-RFD

Propanil-RFD

Propargite (maternal and feto-toxicity)-RFD

Propargite (systemic effects)-RFD

Propargyl alcohol-RFD

Propazine-RFD

Propham-RFD

Propiconazole-RFD

Propiolactone-

Propionaldehyde-RFC

Propylene glycol-

Propylene glycol monoethyl ether-

Propylene glycol monomethyl ether (PGME)-RFC

Propylene oxide-RFC

Propyleneimine-

Pursuit-RFD

Pydrin-RFD

Pyrene-RFD

Pyridine-RFD

Quinalphos-RFD

Quinoline-

Quinone-

Radium 226,228-

Radon 222-

Refractory ceramic fibers-

Resmethrin-RFD

Rotenone-RFD

Savey-RFD

Selenious acid-RFD

Selenium and Compounds-RFD

Selenium sulfide-

Selenourea-

Sethoxydim-RFD

Silver-RFD

Silver cyanide-RFD

Simazine-RFD

Sodium azide-RFD

Sodium cyanide-RFD

Sodium diethyldithiocarbamate-RFD

Sodium fluoroacetate-RFD

Strontium-RFD

Strychnine-RFD

Styrene-RFD

Styrene-RFC

Systhane-RFD

Tebuthiuron-RFD

Terbacil-RFD

Terbutryn-RFD

Tetrabromodiphenyl ether-

Tetrachlorobenzene-RFD

Tetrachlorocyclopentadiene-

1,1,1,2-Tetrachloroethane-RFD

1,1,2,2-Tetrachloroethane (subchronic)-RFD

Tetrachloroethylene-RFD

Tetrachloroethylene-RFC

Tetrachloroethylene-RFC

Tetrachloroethylene-RFD

Tetrachlorophenol-RFD

Tetrachlorovinphos-RFD

Tetraethyl lead-RFD

Tetraethyldithiopyrophosphate-RFD

Tetrafluoroethane-RFC

Tetrahydrofuran-RFC

Thallium (I), soluble salts-

Thallium acetate-

Thallium carbonate-

Thallium chloride-

Thallium nitrate-

Thallium oxide-

Thallium selenite-

Thallium(I) sulfate-

Thiobencarb-RFD

Thiophanate-methyl-RFD

Thiram-RFD

Toluene-RFD

Toluene-RFC

Toluene diisocyanate mixture (TDI)-RFC

Toxaphene-

Tralomethrin-RFD

Triallate-RFD

Triasulfuron-RFD

Tribromobenzene-RFD

Tribromochloromethane-

Tribromodiphenyl ether-

Tributyltin oxide (TBTO)-RFD

1,1,2-Trichloro-1,2,2-trifluoroethane (CFC-113)-RFD

Trichloroacetic acid-RFD

Trichlorobenzene-RFD

Trichlorocyclopentadiene-

1,1,1-Trichloroethane-RFD

1,1,1-Trichloroethane (chronic)-RFC

1,1,1-Trichloroethane (Subchronic)-RFD

1,1,1-Trichloroethane (acute)-RFC

1,1,1-Trichloroethane (short-term)-RFC

1,1,1-Trichloroethane (Subchronic)-RFC

Trichloroethylene (developmental immunotoxicity)-RFD

Trichloroethylene (heart malformations)-RFC

Trichloroethylene (adult immunological effects)-RFD

Trichloroethylene (adult immunological effects)-RFC

Trichloroethylene (heart malformations)-RFD

Trichlorofluoromethane-RFD

Trichlorophenol-RFD

Trichlorophenol-

2(2,4,5-Trichlorophenoxy) propionic acid (2,4,5-TP)-RFD

2,4,5-Trichlorophenoxyacetic acid (2,4,5-T)-RFD

Trichloropropane-RFC

1,2,3-Trichloropropane-RFD

Trichloropropane-RFD

Tricresol-

Tridiphane-RFD

Triethylamine-RFC

Triethylene glycol monobutyl ether-

Triethylene glycol monoethyl ether-

Trifluralin-RFD

Trimethylpentane-

1,3,5-Trinitrobenzene-RFD

Trinitrotoluene (TNT)-RFD

Uranium, natural-

Uranium, soluble salts-RFD

Vanadium pentoxide-RFD

Vernam-RFD

Vinclozolin-RFD

Vinyl acetate-RFC

Vinyl bromide-RFC

Vinyl chloride-RFD

Vinyl chloride-RFC

Warfarin-RFD

White phosphorus-RFD

Xylenes-RFD

Xylenes-RFC

Zinc and Compounds-RFD

Zinc cyanide-RFD

Zinc phosphide-RFD

Zineb-RFD

Pentabromodiphenyl ether (BDE-99)-RFD

Tetrabromodiphenyl ether (BDE-47)-RFD Hexabromodiphenyl ether (BDE-153)-RFD

SUBSTANCE\_NAME

Acenaphthene

Acenaphthylene

Acephate

Acephate

Acetaldehyde

Acetochlor

Acetone

Acetonitrile

Acetonitrile

Acetophenone

Acetyl chloride

Acifluorfen, sodium

Acrolein

Acrolein

Acrylamide

Acrylamide

Acrylic acid

Acrylic acid

Acrylonitrile

Adiponitrile

Alachlor

Alar

Aldicarb

Aldicarb sulfone

Aldrin

Ally

Allyl alcohol

Allyl chloride

Aluminum phosphide

Amdro

Ametryn

Aminopyridine

Amitraz

Ammonia

Ammonium acetate

Ammonium methacrylate

Perchlorate (CIO4) and Perchlorate Salts

Ammonium sulfamate

Aniline

Anisidine

Anthracene

Antimony

Antimony trioxide

Apollo

Aramite

Aroclor 1016

Aroclor 1248

Aroclor 1254

Arsenic, inorganic

Arsine

Asbestos

Assure

Asulam

Atrazine

Avermectin B1

Azobenzene

**Barium and Compounds** 

Barium cyanide

Baygon

**Bayleton** 

Baythroid

Benefin

Benomyl

Bentazon (Basagran)

Benz[a]anthracene

Benzaldehyde

Benzene

Benzene

Benzidine

Benzo[a]pyrene (BaP)

Benzo[b]fluoranthene

Benzo[g,h,i]perylene

Benzo[k]fluoranthene

Benzoic acid

Benzotrichloride

Benzyl chloride

Beryllium and compounds

Beryllium and compounds

Bidrin

Biphenthrin

1,1-Biphenyl

Bis(2-chloro-1-methylethyl) ether

Bis(2-chloroethoxy)methane

Bis(chloroethyl)ether (BCEE)

Bis(chloromethyl)ether (BCME)

Bisphenol A.

**Boron and Compounds** 

**Bromate** 

Brominated dibenzofurans

Bromobenzene (subchronic)

Bromobenzene (subchronic)

Bromobenzene (chronic)

Bromobenzene (chronic)

Bromochloromethane

Bromodichloromethane

Bromodiphenyl ether

Bromoform

Bromomethane

Bromomethane

Bromotrichloromethane

Bromoxynil

Bromoxynil octanoate

1,3-Butadiene

n-Butanol

Butyl benzyl phthalate

Butylate

Butylchloride

Butylphthalyl butylglycolate (BPBG)

Cacodylic acid

Cadmium (water)

Cadmium (food)

Calcium cyanide

Caprolactam

Captafol

Captan

Carbaryl

Carbofuran

Carbon disulfide

Carbon disulfide

Carbon tetrachloride

Carbon tetrachloride

Carbonyl sulfide

Carbosulfan

Carboxin

Cerium Oxide and Cerium Compounds

Chloral hydrate

Chloramben

Chlordane (Technical)

Chlordane (Technical)

Chlordecone (Kepone)

Chlorimuron-ethyl

Chlorine

Chlorine cyanide

Chlorine dioxide

Chlorine dioxide

Chlorite (sodium salt)

1-Chloro-1,1-difluoroethane

2-Chloroacetophenone

p-Chloroaniline

Chlorobenzene

Chlorobenzilate Chlorobutane

Chlorobutane

Chlorocyclopentadiene

Chlorodifluoromethane

Chloroform

Chloromethyl methyl ether (CMME)

beta-Chloronaphthalene

2-Chlorophenol

Chlorophenyl methyl sulfide

Chlorophenyl methyl sulfone

Chlorophenyl methyl sulfoxide

Chloroprene

Chlorothalonil

o-Chlorotoluene

Chlorpropham

Chlorpyrifos

Chlorsulfuron

Chromium(III), insoluble salts

Chromium(VI) - oral

Chromium(VI)

Chromium(VI)

Chrysene

Coke oven emissions

Copper

Copper cyanide

Creosote

Crotonaldehyde

Cumene

Cumene

Cyanazine

Cyanide, free

Cyanogen

Cyanogen

Cyanogen bromide

Cyclohexane

Cyclohexanone

Cyclohexylamine

Cyhalothrin/Karate

Cypermethrin

Cyromazine

Dacthal

Dalapon, sodium salt

Danito

2,2',3,3',4,4',5,5',6,6'-Decabromodiphenyl ether (BDE-209)

Demeton

Diaminotoluene

Diazomethane

Dibenz[a,h]anthracene

Dibenzofuran

Dibromo-3-chloropropane (DBCP)

1,4-Dibromobenzene

Dibromochloromethane

Dibromodichloromethane

Dibromodiphenyl ether

1,2-Dibromoethane

1,2-Dibromoethane

1,2-Dibromoethane

Dibutyl phthalate

Dicamba

Dichloroacetic acid

1,2-Dichlorobenzene

1,2-Dichlorobenzene

1,2-Dichlorobenzene

Dichlorobenzidine

Dichlorodifluoromethane

Dichlorodiphenyl dichloroethane (DDD)

Dichlorodiphenyldichloroethylene (DDE)

p,p'-Dichlorodiphenyltrichloroethane (DDT)

Dichloroethane

Dichloroethane

cis-1,2-Dichloroethylene

trans-1,2-Dichloroethylene

1,1-Dichloroethylene (1,1-DCE)

1,1-Dichloroethylene (1,1-DCE)

Dichloromethane

Dichloromethane

2,4-Dichlorophenol

4-(2,4-Dichlorophenoxy)butyric acid (2,4-DB)

2,4-Dichlorophenoxyacetic acid (2,4-D)

Dichloropropane

2,3-Dichloropropanol

1,3-Dichloropropene

1,3-Dichloropropene

Dichlorvos

Dichlorvos

Dicofol

Dieldrin

Diesel engine exhaust

Diethyl phthalate

Diethyl sulfate

Diethyl-p-nitrophenylphosphate

Diethylene glycol dinitrate (DEGDN)

Di(2-ethylhexyl)adipate

Di (2-ethylhexyl)phthalate (DEHP)

Difenzoquat

Diflubenzuron

1,1-Difluoroethane

Diisopropyl methylphosphonate (DIMP)

Dimethipin

Dimethoate

Dimethyl phthalate

Dimethyl sulfate

Dimethyl terephthalate (DMT)

Dimethylamine

N-N-Dimethylaniline

Dimethylbenzidine

Dimethylformamide

2,4-Dimethylphenol

2,6-Dimethylphenol

3,4-Dimethylphenol

4,6-Dinitro-o-cyclohexyl phenol

m-Dinitrobenzene

m-Dinitrobenzene

2,4-Dinitrophenol

2,4-Dinitrotoluene

Dinitrotoluene mixture

Dinoseb

1,4-Dioxane

Diphenamid

Diphenylamine

Diphenylhydrazine

Diquat

Disulfoton

1,4-Dithiane

Diuron

Dodine

Endosulfan

Endothall

Endrin

Epichlorohydrin

1,2-Epoxybutane (EBU)

Ethephon

Ethion

2-Ethoxyethanol

Ethyl acetate

Ethyl carbamate

Ethyl chloride

S-Ethyl dipropylthiocarbamate (EPTC)

Ethyl ether

Ethyl p-nitrophenyl phenylphosphorothioate (EPN)

Ethylbenzene

Ethylbenzene

Ethylene diamine

Ethylene glycol

Ethylene glycol monobutyl ether (EGBE) (2-Butoxyethanol)

Ethylene glycol monobutyl ether (EGBE) (2-Butoxyethanol)

Ethylene oxide

Ethylene thiourea (ETU)

Ethyleneimine

Ethylphthalyl ethylglycolate (EPEG)

**Express** 

Fenamiphos

Fluometuron

Fluoranthene

Fluorene

Fluorine (soluble fluoride)

Fluridone

Flurprimidol

Flutolanil

Fluvalinate

Folpet

Fomesafen

**Fonofos** 

Formaldehyde

Formic acid

Fosetyl-al

Furan

**Furfural** 

Furmecyclox

Glufosinate-ammonium

Glycidaldehyde

Glyphosate

Haloxyfop-methyl

Harmony

Heptachlor

Heptachlor epoxide

Heptane

Hexabromobenzene

2,2',4,4',5,5'-Hexabromodiphenyl ether (BDE-153)

Hexachlorobenzene

Hexachlorobutadiene

Hexachlorocyclohexane (alpha-HCH)

Hexachlorocyclohexane (beta-HCH)

Hexachlorocyclohexane (delta-HCH)

Hexachlorocyclohexane (epsilon-HC)

Hexachlorocyclohexane (gamma-HCH)

Hexachlorocyclohexane (t-HCH)

Hexachlorocyclopentadiene (HCCPD)

Hexachlorocyclopentadiene (HCCPD)

Hexachlorodibenzo-p-dioxin (HxCDD), mixture of 1,2,3,6,7,8-HxCDD and 1,2,3,7,8,9-HxCDD

Hexachloroethane

Hexachloroethane

Hexachlorophene

Hexahydro-1,3,5-trinitro-1,3,5-triazine (RDX)

1,6-Hexamethylene diisocyanate

Hexane

2-Hexanone

2-Hexanone

Hexazinone

Hydrazine/Hydrazine sulfate

Hydrogen chloride

Hydrogen cyanide

Hydrogen cyanide

Hydrogen sulfide

Hydroquinone

Imazalil

Imazaquin

Indeno[1,2,3-cd]pyrene

**Iprodione** 

Isobutyl alcohol

Isophorone

Isopropalin

Isopropyl methyl phosphonic acid (IMPA)

Isoxaben

Lactofen

Lead and compounds (inorganic)

Limonene

Linuron

Londax

Malathion

Maleic anhydride

Maleic hydrazide

Maneb

Manganese

Manganese

Mepiquat chloride

Mercuric chloride (HgCl2)

Mercury, elemental

Merphos

Merphos oxide

Metalaxyl

Methacrylonitrile

Methamidophos

Methanol

Methidathion

Methomyl

Methoxychlor

Methoxyethanol

Methyl acrylate

Methyl chloride

Methyl chlorocarbonate

Methyl ethyl ketone (MEK)

Methyl ethyl ketone (MEK)

Methyl isobutyl ketone (MIBK)

Methyl isocyanate

Methyl methacrylate

Methyl methacrylate

Methyl parathion

Methyl tert-butyl ether (MTBE)

Methyl-4-chlorophenoxy) butyric acid (MCPB)

Methyl-4-chlorophenoxy)propionic acid (MCPP)

2-Methyl-4-chlorophenoxyacetic acid (MCPA)

Methylene Diphenyl Diisocyanate (monomeric MDI) and polymeric MDI (PMDI)

Methylene bis(N,N'-dimethyl)aniline

Methylmercury (MeHg)

Methylmercury (MeHg)

2-Methylnaphthalene

Methylphenol

Methylphenol

Methylphenol

Metolachlor

Metribuzin

Mirex

Molinate

Molybdenum

Monochloramine

Naled

Naphthalene

Naphthalene

Napropamide

Nickel carbonyl

Nickel refinery dust

Nickel subsulfide

Nickel, soluble salts

Nitrapyrin

Nitrate

Nitric oxide

Nitrite

Nitrobenzene

Nitrobenzene

Nitrobenzene

Nitrogen dioxide

Nitroguanidine

Nitrophenol

2-Nitropropane

Nitroso-N-methylethylamine

Nitroso-di-n-butylamine

Nitrosodi-N-propylamine

Nitrosodiethanolamine

Nitrosodiethylamine

Nitrosodimethylamine

Nitrosodiphenylamine

Nitrosopyrrolidine

Nonabromodiphenyl ether

Norflurazon

NuStar

Octabromodiphenyl ether

Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine (HMX)

Oryzalin

Oxadiazon

Oxamyl

Oxyfluorfen

**Paclobutrazol** 

Paraguat

Parathion

Pendimethalin

Pentabromodiphenyl ether

Pentachlorobenzene

Pentachlorocyclopentadiene

Pentachloronitrobenzene (PCNB)

Pentachlorophenol

Pentafluoroethane

Permethrin

Phenanthrene

Phenmedipham

Phenol

Phenylenediamine

Phenylmercuric acetate

Phosalone

Phosgene

Phosmet

Phosphine

Phosphine

Phosphoric acid

Phthalic anhydride

Picloram

Pirimiphos-methyl

Polychlorinated biphenyls (PCBs)

Potassium cyanide

Potassium silver cyanide

Prochloraz

Prometon

Prometryn

Pronamide

Propachlor

Propanil

Propargite (maternal and feto-toxicity)

Propargite (systemic effects)

Propargyl alcohol

Propazine

Propham

Propiconazole

Propiolactone

Propionaldehyde

Propylene glycol

Propylene glycol monoethyl ether

Propylene glycol monomethyl ether (PGME)

Propylene oxide

Propyleneimine

**Pursuit** 

**Pydrin** 

Pyrene

Pyridine

Quinalphos

Quinoline

Quinone

Radium 226,228

Radon 222

Refractory ceramic fibers

Resmethrin

Rotenone

Savey

Selenious acid

Selenium and Compounds

Selenium sulfide

Selenourea

Sethoxydim

Silver

Silver cyanide

Simazine

Sodium azide

Sodium cyanide

Sodium diethyldithiocarbamate

Sodium fluoroacetate

Strontium

Strychnine

Styrene

Styrene

Systhane

Systiant

Tebuthiuron

Terbacil

Terbutryn

Tetrabromodiphenyl ether

Tetrachlorobenzene

Tetrachlorocyclopentadiene

1,1,1,2-Tetrachloroethane

1,1,2,2-Tetrachloroethane (subchronic)

Tetrachloroethylene

Tetrachloroethylene

Tetrachloroethylene

Tetrachloroethylene

Tetrachlorophenol

Tetrachlorovinphos

Tetraethyl lead

Tetraethyldithiopyrophosphate

Tetrafluoroethane

Tetrahydrofuran

Thallium (I), soluble salts

Thallium acetate

Thallium carbonate

Thallium chloride

Thallium nitrate

Thallium oxide

Thallium selenite

Thallium(I) sulfate

Thiobencarb

Thiophanate-methyl

**Thiram** 

Toluene

Toluene

Toluene diisocyanate mixture (TDI)

Toxaphene

Tralomethrin

Triallate

Triasulfuron

Tribromobenzene

Tribromochloromethane

Tribromodiphenyl ether

Tributyltin oxide (TBTO)

1,1,2-Trichloro-1,2,2-trifluoroethane (CFC-113)

Trichloroacetic acid

Trichlorobenzene

Trichlorocyclopentadiene

1,1,1-Trichloroethane

1,1,1-Trichloroethane (chronic)

1,1,1-Trichloroethane (Subchronic)

1,1,1-Trichloroethane (acute)

1,1,1-Trichloroethane (short-term)

1,1,1-Trichloroethane (Subchronic)

Trichloroethylene (developmental immunotoxicity)

Trichloroethylene (heart malformations)

Trichloroethylene (adult immunological effects)

Trichloroethylene (adult immunological effects)

Trichloroethylene (heart malformations)

Trichlorofluoromethane

Trichlorophenol

Trichlorophenol

2(2,4,5-Trichlorophenoxy) propionic acid (2,4,5-TP)

2,4,5-Trichlorophenoxyacetic acid (2,4,5-T)

Trichloropropane

1,2,3-Trichloropropane

Trichloropropane

Tricresol

Tridiphane

Triethylamine

Triethylene glycol monobutyl ether

Triethylene glycol monoethyl ether

Trifluralin

Trimethylpentane

1,3,5-Trinitrobenzene

Trinitrotoluene (TNT)

Uranium, natural

Uranium, soluble salts

Vanadium pentoxide

Vernam

Vinclozolin

Vinyl acetate

Vinyl bromide

Vinyl chloride

Vinyl chloride

Warfarin

White phosphorus

**Xylenes** 

**Xylenes** 

Zinc and Compounds

Zinc cyanide

Zinc phosphide

Zineb

Pentabromodiphenyl ether (BDE-99)

Tetrabromodiphenyl ether (BDE-47) Hexabromodiphenyl ether (BDE-153) PCE\_EFF\_TYPE\_CODE О ı 0 O О O 0 0 О O 0 O O O O O O O O О 0 O О O ı О O O

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Hepatotoxicity

blank

blank

Inhibition of brain ChE

Degeneration of olfactory epithelium

Salivation, increased ALT and ornithine carbamyl transferase significant increases in triglyceride and decreased blood glu

Nephropathy

blank

Mortality

General toxicity

blank

Mortality and kidney lesions

blank

Decreased survival

Degenerative nerve changes

Degenerative nerve changes

Degeneration of the nasal olfactory epithelium

Reduced pup weight

Degeneration and inflammation of nasal respiratory epithelium; hyperplasia of mucous secreting cells

blank

Hemosiderosis, hemolytic anemia

No adverse effects (maternal and fetal toxicity evaluated)

Sweating as clinical sign of AChe inhibition

Brain ChE inhibition in females

Liver toxicity

Decreased body weight

Impaired renal function and increased liver and kidney weights

Functional and histological peripheral neurotoxicity

Body weight and clinical parameters

Increased organ weights

Liver toxicity

blank

Increased mean blood sugar concentration; slight hypothermia

Lack of evidence of decreased pulmonary function or changes in subjective symptomatology

blank

blank

Radioactive iodide uptake inhibition (RAIU) in the thyroid

Decrease in body weight

Lack of toxicity

blank

No observed effects

Longevity, blood glucose, and cholesterol

Pulmonary toxicity, chronic interstitial inflammation

Liver effects; organ weight changes

blank

Reduced birth weights

blank

Ocular exudate, inflamed and prominent Meibomian glands, distorted growth of finger and toe nails; decreased antibody

Hyperpigmentation, keratosis and possible vascular complications

Increased hemolysis, abnormal RBC morphology, and increased spleen weight

blank

Liver cell enlargement

Lower ovarian weight, lower liver/body weight

Decreased body weight gain

Increased retinal folds in weanlings, decreased viability and lactation indices, decreased pup body weight, increase of decreased retinal folds in weanlings, decreased viability and lactation indices, decreased pup body weight, increase of decreased retinal folds in weanlings, decreased viability and lactation indices, decreased pup body weight, increase of decreased retinal folds in weanlings, decreased viability and lactation indices, decreased pup body weight, increase of decreased retinal folds in weanlings, decreased viability and lactation indices, decreased pup body weight, increase of decreased retinal folds in weanlings, decreased viability and lactation indices, decreased pup body weight, increase of decreased retinal folds in the contract of the

blank

Nephropathy

blank

Mild cholinergic symptoms and RBD ChE inhibition

Decreased body weight gain, erythrocyte count and hemoglobin level

Decreased body weights in males, inflammatory foci in kidneys of females

Depressed erythrocyte counts

Decreased pup weanling weights

Blood loss into the gastrointestinal tract; coagulation defect in male and female dogs

blank

Forestomach lesions, kidney toxicity

Decreased lymphocyte count

Decreased lymphocyte count

Brain cell vacuolization; liver cell alterations in females

blank

blank

blank

blank

No adverse effects observed

blank

blank

Small intestinal lesions

Beryllium sensitization and progression to CBD

Decreased pup survival

**Tremors** 

Kidney damage

Decrease in hemoglobin and possible erythrocyte destruction

blank

blank

blank

Reduced mean body weight

Decreased fetal weight (developmental)

Renal effects: urothelial hyperplasia

blank

Hepatocellular cytomegaly in female B6C3F1 mice

Hepatocellular cytomegaly in male B6C3F1 mice

Hepatocellular cytomegaly in female B6C3F1 mice

Hepatocellular cytomegaly in male B6C3F1 mice

blank

Renal cytomegaly

blank

**Hepatic lesions** 

Degenerative and proliferative lesions of the olfactory epithelium of the nasal cavity

Epithelial hyperplasia of the forestomach

blank

No adverse effects

No effects

Ovarian atrophy

Hypoactivity and ataxia

Significantly increased liver-to-body weight and liver-to-brain weight ratios

Increased relative liver weight in male dogs

blank

No adverse effect

blank

Significant proteinuria

Significant proteinuria

No adverse effects

Reduced offspring body weight

Kidney and bladder toxicity

Decreased mean body weights

Kidney and liver toxicity

RBC and plasma cholinesterase inhibition, and testicular and uterine effects

Peripheral nervous system dysfunction

Fetal toxicity/ malformations

Elevated serum SDH activity

Fatty changes in the liver

blank

Decreased body weight

Reduced weight gain, organ weight changes, increased mortality

Increased incidence of alveolar epithelial hyperplasia in the lungs of male and female rats

CNS depression and GI irritation in humans

Hepatocyte degeneration

Hepatic necrosis

Hepatic effects

Renal lesions (glomerulosclerosis) in female Wistar rats

Increase in WBC, decreased in RBC in females, increase in alkaline phosphatase in males

No observed adverse effects

No adverse effects

Vascular congestion and peribronchial edema

Neurodevelopmental effects

Neurodevelopmental effects

No adverse effects

Squamous hyperplasia of the nasal respiratory epithelium

Nonneoplastic lesions of splenic capsule

Histopathologic changes in liver

Decreased stool quantity, food consumption and body weight gains; hyperirritability (maternal effects) blank blank blank Increased kidney, adrenal and pituitary weights Moderate/marked fatty cyst formation in the liver and elevated SGPT blank Dyspnea, abnormal appearance, liver enlargement Reproductive effects blank blank blank Increase in incidence of olfactory atrophy, alveolar hyperplasia, and splenic hematopoietic proliferation in male F344/N r Renal tubular epithelial vacuolation Decrease in body weight gain Kidney, spleen, liver, and bone marrow toxicity Decreased body weight No effects observed None reported Nasal septum atrophy Lactate dehydrogenase in bronchioalveolar lavage fluid blank blank blank Decreased body and organ weights, histopathologic alterations in liver and kidney blank blank Increased average kidney weight in female rats Increased kidney weights in female rats and adrenal weights in male and female rats blank No adverse effects blank blank No adverse effects Reduced pup weights in the F1 and F2 generations Body weight depression Testicular damage Reduced body weight gain preceding pregnancy; reduced body weight gain in offspring during weaning period G.I. tract disturbances Hematologic effects Effects on the lungs, liver, kidney, thyroid and thyroid hormones in males and females and eyes of females Increased kidney body weight ratio **Tremors** Neurobehavioral effects ChE inhibition, optic nerve degeneration blank

blank
blank
blank
Testicular effects
Liver/body weight ratio and hepatic microsomal enzyme induction
Hepatic lesions
blank
blank
Nasal inflammation
Testicular atrophy, liver peliosis, and adrenal cortical degeneration
Testicular atrophy, liver peliosis, and adrenal cortical degeneration
Increased mortality
Maternal and fetal toxicity
Lesions observed in the testes, cerebrum, cerebellum, and liver.
No adverse effects observed
Increased liver weights in P1 males
blank
blank
Reduced body weight
blank
blank
Liver lesions
blank
blank
Decrease in number of antibody forming cells (AFCs) against sheep red blood cells (sRBCs) in male mice
Increased relative kidney weight in male rats
Liver toxicity (fatty change)
Liver toxicity (fatty change)
Liver toxicity
Hepatic effects (hepatic vacuolation)
Decreased delayed hypersensitivity response
Internal hemorrhage, mortality
Hematologic, hepatic and renal toxicity
Hyperplasia of the nasal mucosa
Myocardial degeneration, hepatotoxicity and nephrotoxicity
Chronic irritation
Hypertrophy/ hyperplasia of the nasal respiratory epithelium
Plasma and RBC ChE inhibition in males and females; brain ChE inhibition in males
Decreased brain cholinesterase activity
blank
Liver lesions
Pulmonary inflammation and histopathology
Decreased growth rate, food consumption and altered organ weights
blank
blank
blank
Changes in body weight and liver weight increased liver weight of male and female parents; reduced ossification and slig
<u>-</u>

Increased relative liver weight

Decreased body weight

Methemoglobin and sulfhemoglobin formation

No adverse effects observed

No effects related to treatment

Increased absolute and relative liver weight

Brain ChE inhibition

blank

blank

Chronic kidney inflammation

blank

Splenomegaly, increased splenic hemosiderosis and hematopoiesis

blank

Digestive disturbances and minimal hepatic changes suggestive of liver abnormalities

Clinical signs (lethargy, prostration, and ataxia) and hematological changes

Changes in blood pressure and body weight; histopathological changes in liver, kidney and spleen

Body weight changes and histopathological changes of internal organs (liver, spleen and kidneys)

Cataract formation

blank

Increased splenic weight

Cataract formation

Neurotoxicity, Heinz bodies and biliary tract hyperplasia

blank

Decreased fetal weight

Liver and kidney toxicity

Liver toxicity

Decreased body weight gain, and increased liver and kidney weights

blank

Minimal lens opacity and cataracts

ChE inhibition, optic nerve degeneration

Nasal olfactory lesions

Abnormal pigments in blood

Thyroid toxicity

Reduced body weight gain in males and females; increased incidence of marked progressive glomerulonephrosis and blo

Increased absolute and relative weights of stomach and small intestine

Mild histological lesions in liver, occasional convulsions

Changes in the nasal turbinates

Degenerative lesions of the nasal cavity

Plasma ChE inhibition

Plasma cholinesterase inhibition

Decreased testis weight, seminiferous tubule degeneration and decreased hemoglobin

Mortality and body weight loss

blank

Delayed fetal ossification

Degenerative cardiomyopathy

Depressed body weights

Neurotoxicity

Developmental toxicity Liver and kidney toxicity

blank

Kidney toxicity

Hemosiderin deposition in the liver

Hemosiderin deposition in the liver

blank

Increased incidence of thyroid hyperplasia

blank

Kidney damage and reduced lifespan

Elevated serum bilirubin and AST levels, increased urinary volume

ChE inhibition

No adverse effects

Nephropathy, increased liver weights, hematological alterations, and clinical effects

Decreased RBC, packed cell volume and hemoglobin

Objectionable dental fluorosis, a cosmetic effect

Glomerulonephritis, atrophic testes, eye keratitis; decreased body weight and organ weights

Increased incidence of hepatocellular changes including fatty change and vacuolation (M); increased susceptibility to stre

Decreased body weight and body weight gains in both doses; increased liver weights at high dose

Decreases in body weight gain; increase in plantar ulcer (females)

Decreased body weight gain, altered serum chemistry parameters

blank

Cholinesterase inhibition, cholinergic symptoms, and increased liver weight

Reduced weight gain, histopathology in rats

blank

Slight testicular degeneration

Hepatic lesions

Mild hepatocellular vacuolization

blank

Increased absolute and relative kidney weights in males

Weight gain retardation, enlarged adrenals, hydropic renal pelvis and hematopoietic effects

Increased incidence of renal tubular dilation in F3b offspring

Reduced relative kidney weights in F0, F1, and F2b adults; reduced fertility in the F1/F2b generation

Reduced body weight gains in males, reduced serum sodium in males and females

Liver weight increases in males

Increased liver-to-body weight ratio in both males and females

blank

Induced serum carboxylesterase activity

blank

Liver effects

blank

blank

blank

blank

blank

Liver and kidney toxicity

blank

Suppurative inflammation of the nose

Chronic irritation

blank

Neurotoxicity

Atrophy and degeneration of renal tubules

Swollen salivary glands, status spongiosis in brain and optic nerve

Inflammation of the prostate

Degeneration of olfactory epithelium

Peripheral neuropathy (decreased MCV at 12 weeks)

Motor conduction velocity of the sciatic-tibial nerve

Axonal swelling of the peripheral nerve

Decreased body weight

blank

Hyperplasia of nasal mucosa larynx and trachea

CNS symptoms and thyroid effects

No adverse effects

Nasal lesions of the olfactory mucosa

blank

Decreased body weight gain

Decreased body weight gain, skeletal myopathy, slight anemia, bone marrow hyperplasia, elevated serum SGOT, SGPT, C

blank

Increased RBC Heinz bodies; decreased prostate weight

Hypoactivity and ataxia

No observed effects

Reduced hemoglobin concentration, lowered hematocrits, and altered organ weights

No adverse effects observed

Increased BUN; decreased serum AP and AST; decreased food consumption efficiency; increased heart/body weight

Increased absolute and relative liver weight; hepatocytomegaly in males

blank

blank

Abnormal blood pigment

Liver effects

**RBC ChE depression** 

No adverse effects

Renal dysfunction

Increased thyroid weight

CNS effects

Impairment of neurobehavioral function

Sedation and tonoclonic spasms; decreased food intake and body weights; hematologic effects

Autoimmune effects

Hand tremor; increases in memory disturbances; slight subjective and objective evidence of autonomic dysfunction

Ataxia, delayed neurotoxicity and weight loss

Ataxia, delayed neurotoxicity and weight loss

Increased serum alkaline phosphatase levels and increased liver-to-brain weight ratio

Increased SGOT and SGPT levels

ChE inhibition

Increased SAP and SGPT, and decreased brain weight

Liver toxicity

Kidney and spleen pathology

Excessive loss of litters

Testicular effects

blank

Cerebellar lesions

blank

Developmental toxicity (skeletal variations)

Decreased pup body weight

Reduced fetal body weight, skeletal variations, and increased fetal death in mice, and skeletal variations in rats.

blank

None

Degeneration/ atrophy of olfactory epithelium (male rats)

RBC, ChE inhibition; reduced hemoglobin, hematocrit and RBCs

Increased absolute and relative liver and kidney weights and increased severity of spontaneous renal lesions (females), in

Male reproductive toxicity and other effects

Increased absolute and relative kidney weights

Kidney and liver toxicity

Hyperplasia of olfactory epithelium

blank

Developmental neuropsychological impairment

Developmental neuropsychological impairment

Pulmonary alveolar proteinosis

blank

Decreased body weights and neurotoxicity

Decreased body weights and neurotoxicity

Decreased body weight gain

Liver and kidney effects, decreased body weight, mortality

Liver cytomegaly, fatty metamorphosis, angiectasis; thyroid cystic follicles

Reproductive toxicity

Increased uric acid levels

No observed effects

Brain ChE inhibition

Decreased mean terminal body weight in males

Nasal effects: hyperplasia and metaplasia in respiratory and olfactory epithelium, respectively

Decreased body weight gain in parental animals and pups

blank

blank

blank

Decreased body and organ weights

blank

Early clinical signs of methemoglobinemia in excess of 10% (0-3 months old infants formula)

blank

Methemoglobinemia

Increased methemoglobin levels

Bronchiolization of the alveoli and olfactory degeneration

Increased methemoglobin levels

blank Reduced weight gain in female rats, maternal/fetal toxicity in rats, and equivocal evidence of developmental toxicity in r blank Liver focal vacuolization and nodules blank blank blank blank blank blank blank blank blank Liver and thyroid effects Liver cell enlargement Induction of hepatic enzymes; liver histopathology **Hepatic lesions** Increases in serum cholesterol, alkaline phosphatase, and relative liver and kidney weights, and decreases in alanine trar Increased levels of serum proteins and increased liver weights Decreased body weight gain and food consumption Increased absolute liver weight and nonneoplastic lesions Elevated liver weights, serum cholesterol, hepatic aminopyrine N-demethylase activity, and alanine transaminase levels Chronic pneumonitis blank Increase in serum alkaline phosphatase and liver weight, and hepatic lesions Induction of hepatic enzymes Liver and kidney toxicity blank Liver toxicity Hepatotoxicity blank Increased liver weights blank No adverse effects Decreased maternal weight gain Increased relative and absolute liver weights and degenerative liver lesions Renal damage blank Collagen staining indicative of fibrosis Reduced body weight (males), liver cell vacuolation, cholinesterase inhibition Body weight and clinical parameters Decreased body weight Bronchiolar fibrosis

Lung and kidney histopathology

Transient plasma ChE depression

Increased liver weights

blank

No observed effects

No observed effects

Increase in SAP and liver weights, liver histopathology

No treatment related effects observed

Liver and kidney degeneration and bone marrow atrophy

No effects

Decreased weight gain, food consumption; increased relative liver weights

Increased relative spleen weight in females

Reduced body weight gain; increased resorption, reduced body weight, delayed ossification (maternal and fetal)

No adverse effects observed at the HDT

Renal and hepatotoxicity

Decrease in body weight

Increase in male spleen weight and ChE depression in females

Gastric mucosal irritation

blank

Atrophy of olfactory epithelium

blank

blank

Mild reversible sedation

Nest-like infolds of the nasal respiratory epithelium

blank

Decreased packed cell volume, hemoglobin, erythrocytes in females

Neurological dysfunction

Kidney effects (renal tubular pathology, decreased kidney weights)

Increased liver weight

No adverse effects reported

blank

blank

blank

blank

blank

Reproductive toxicity

Reduced pup weight

Hypertrophy of adrenal cortex (both sexes); hematologic effects (males)

Clinical selenosis

Clinical selenosis

blank

blank

Mild anemia in males

Argyria

No observed effects

Reduction in weight gains; hematological changes in females

Clinical sign (e.g., hunched postures) and reduced body weight

No observed effects

Reduced body weight

Increased heart weight in females and males; decreased testis weight and altered spermatogenesis in males.

Rachitic bone

Toxicity/histopathology Red blood cell and liver effects **CNS** effects Testicular atrophy Depressed body weight gain in F1 females Increase in thyroid/body weight ratio; slight increase in liver weights; elevated alkaline phosphatase Hematologic effects in females blank Kidney lesions blank Mineralization of the kidneys in males, hepatic clear cell change in females Increased relative liver weight in rats Neurotoxicity (reaction time, cognitive effects) Neurotoxicity (color vision) Neurotoxicity (reaction time, cognitive effects) Neurotoxicity (color vision) Increased liver weights and centrilobular hypertrophy Reduced body weight gain, increased liver and kidney weights, and RBC ChE inhibition Histopathology of liver and thymus Depressed RBC and plasma cholinesterase activity Leydig cell hyperplasia Increased liver weight and centrilobular cytomegaly; CNS effects (narcosis) blank blank blank blank blank blank blank blank Decrease in body weight, increase in BUN Decreased body weight, decreased spermatogenesis, and histological evidence of hyperthyroidism Neurotoxicity Increased kidney weight Neurological effects in occupationally-exposed workers Chronic lung-function decline blank Decreased body weight gain in males; increased food and water consumption in males and females

Increased hemosiderin deposition, serum alkaline phosphatase, and liver weight in females

Centrilobular hepatocytomegaly in males

Increased liver-to-body weight ratio and hepatic microsomal enzyme induction

blank

blank

**Immunosuppression** 

Psychomotor impairment

Hepatocellular necrosis

Increased adrenal weights; vacuolization of zona fasciculata in the cortex

blank

Clinical serum chemistry

Liver histopathologic changes

Reduced body weight

Performance on neurobehavioral tests

Performance on neurobehavioral tests

Liver histopathologic changes

Decreased plaque-forming cell (PFC) response, increased delayed-type hypersensitivity in B6C3F1 mice (development Im

Increased fetal cardiac malformations in Sprague-Dawley rats (heart malformations)

Decreased thymus weight in female B6C3F1 mice (adult immunological effects)

Decreased thymus weight in female B6C3F1 mice (immunotoxicity)

Increased fetal cardiac malformations in Sprague-Dawley rats (heart malformations)

Survival and histopathology

Liver and kidney pathology

blank

Histopathological changes in liver

Increased urinary coproporphyrins

peribronchial lymphoid hyperplasia in male rats

Increased absolute liver weight in male rats

Mild lesions in liver, kidney and thyroid

blank

Decreased fertility index and depressed body weight of dams

No observed adverse effects

blank

blank

Increased liver weights; increase in methemoglobin

blank

Methemoglobinemia and spleen-erythroid cell hyperplasia

Liver effects

blank

Initial body weight loss; moderate nephrotoxicity

Decreased hair cystine

Decreased body weight

Organ weight changes

Nasal epithelial lesions

Hypertrophy, basophilic and eosinophilic foci, in the liver

Liver cell polymorphism

Liver cell polymorphism

Increased prothrombin time

Parturition mortality; forelimb hair loss

Decreased body weight, increased mortality

Impaired motor coordination (decreased rotarod performance)

Decreases in erythrocyte Cu, Zn-superoxide dismutase (ESOD) activity in healthy adult male and female volunteers

No observed effects

Reduction of food intake and body weight

Thyroid hyperplasia

Neurobehavioral effects

Neurobehavioral effects Neurobehavioral effects

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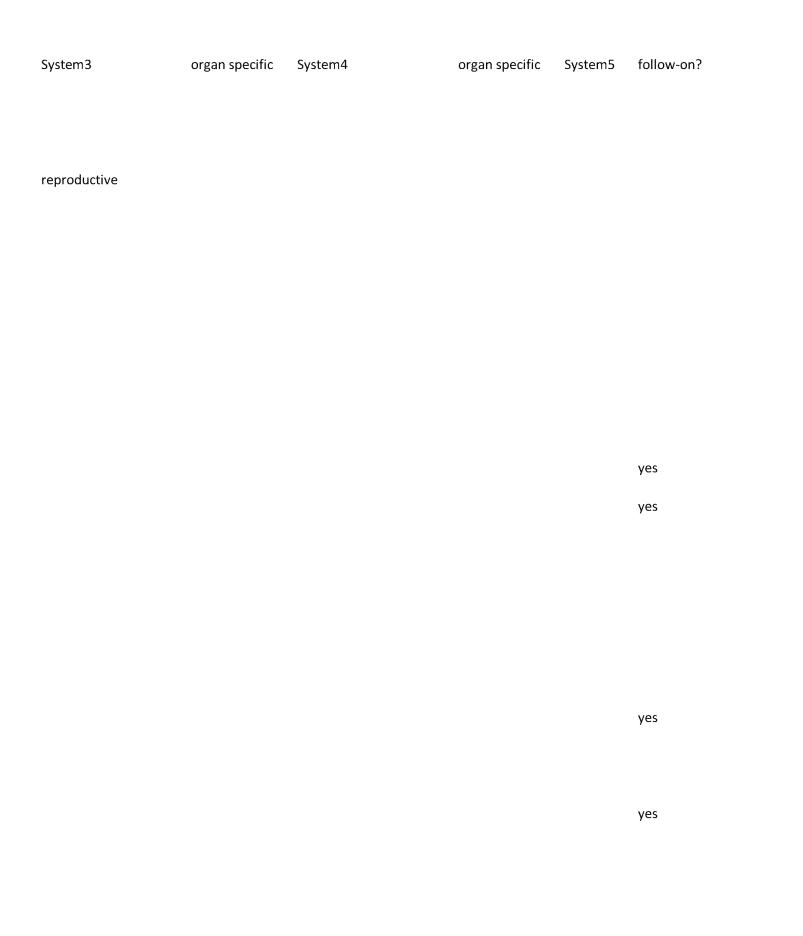
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- y nervous system



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yes

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yes

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liver skeletal

excretory endocrine eye

endocrine endocrine

liver

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lymphatic/immunological y

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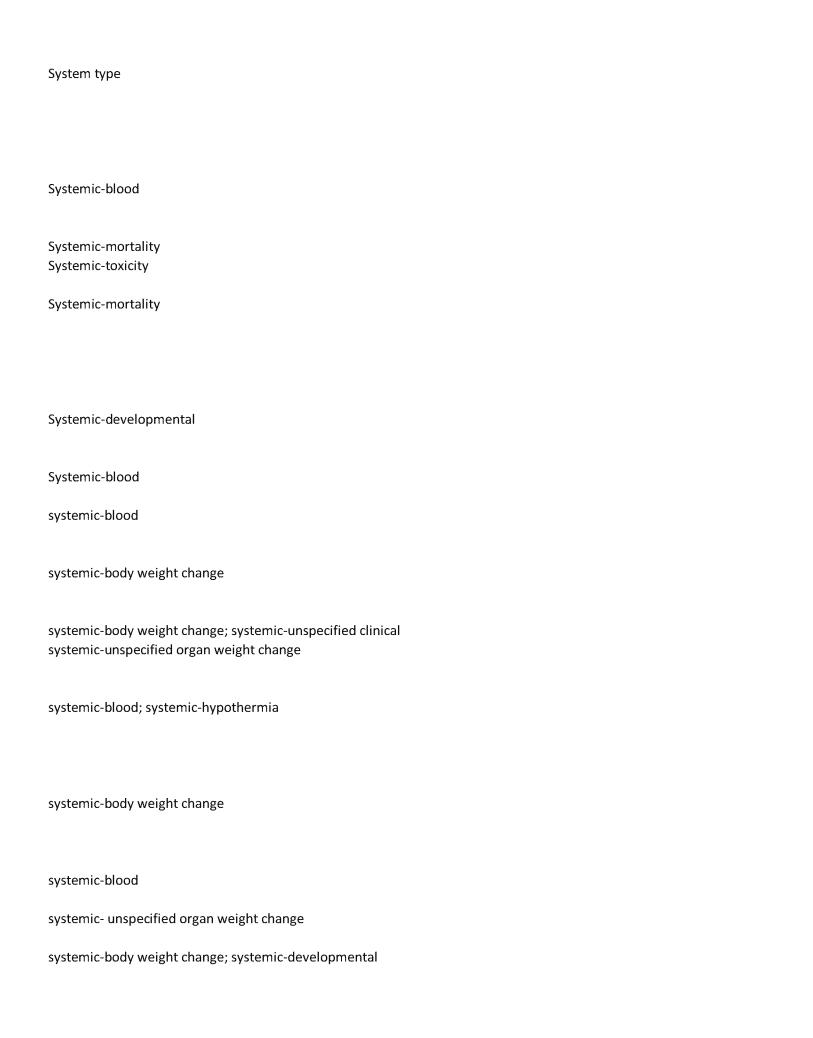
reproductive eye yes

endocrine

skeletal

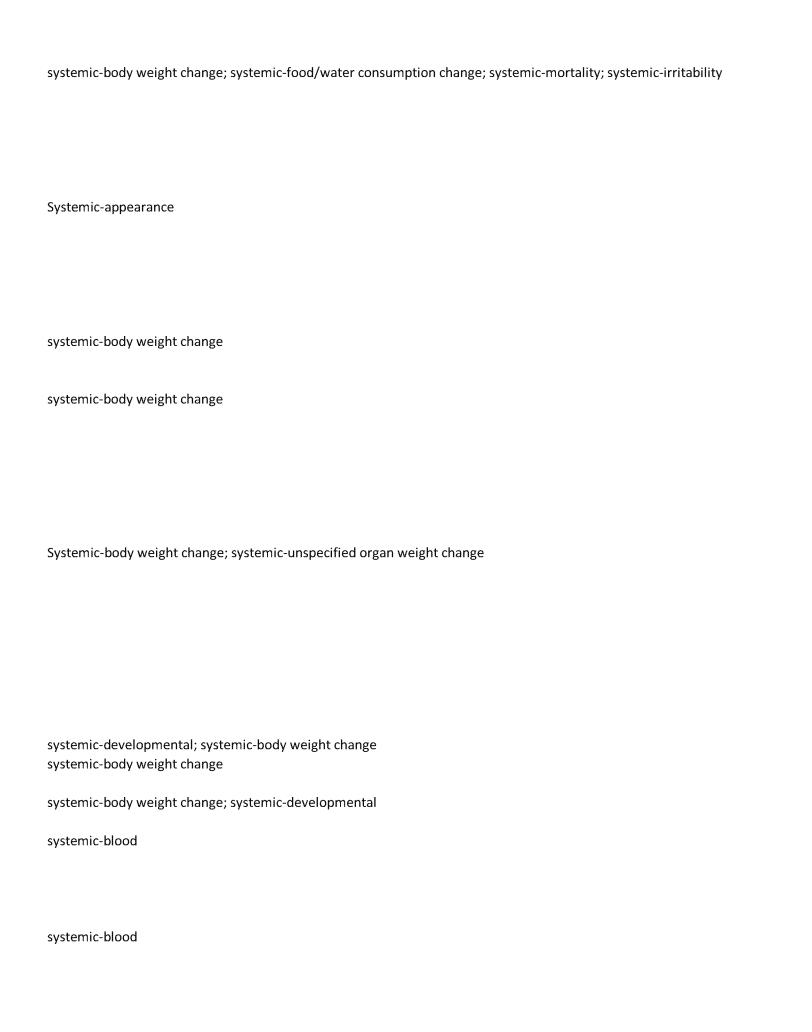
endocrine

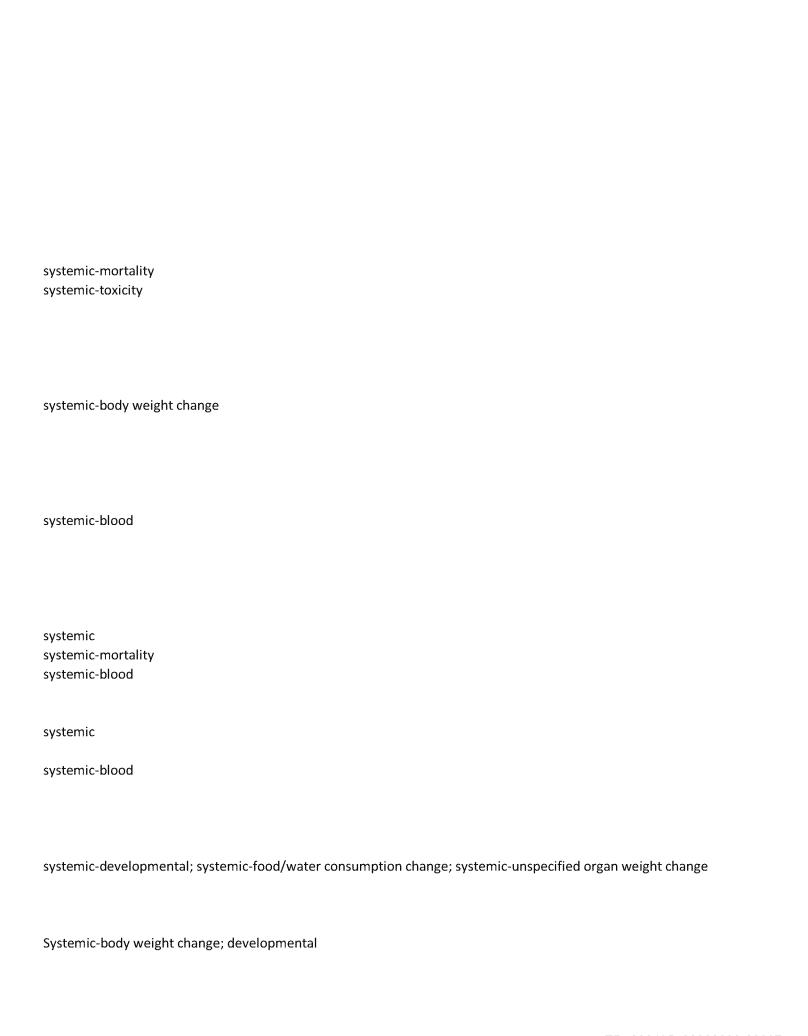




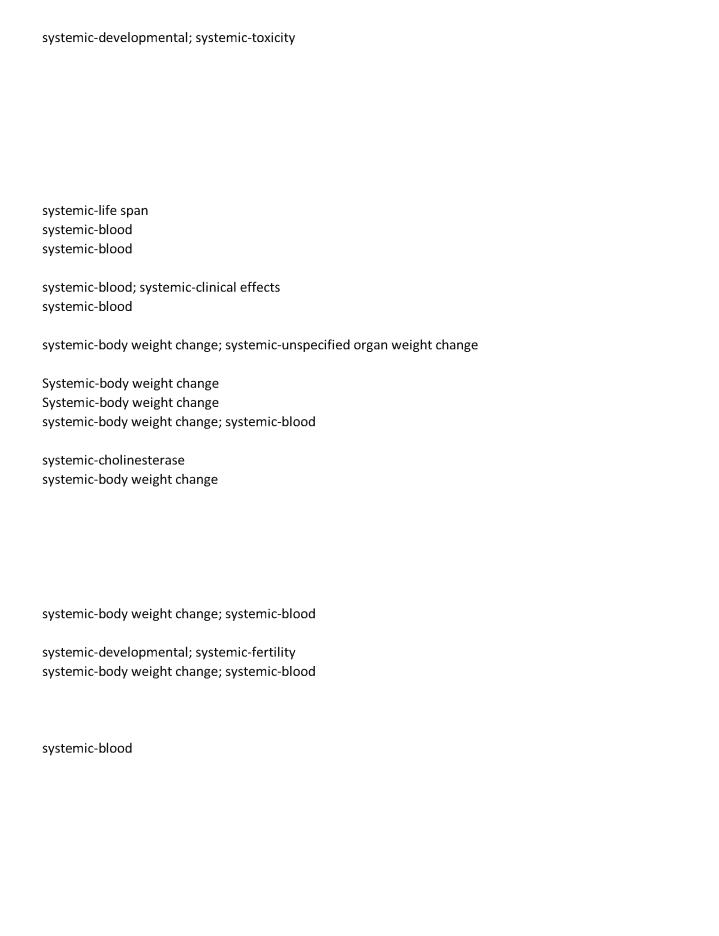
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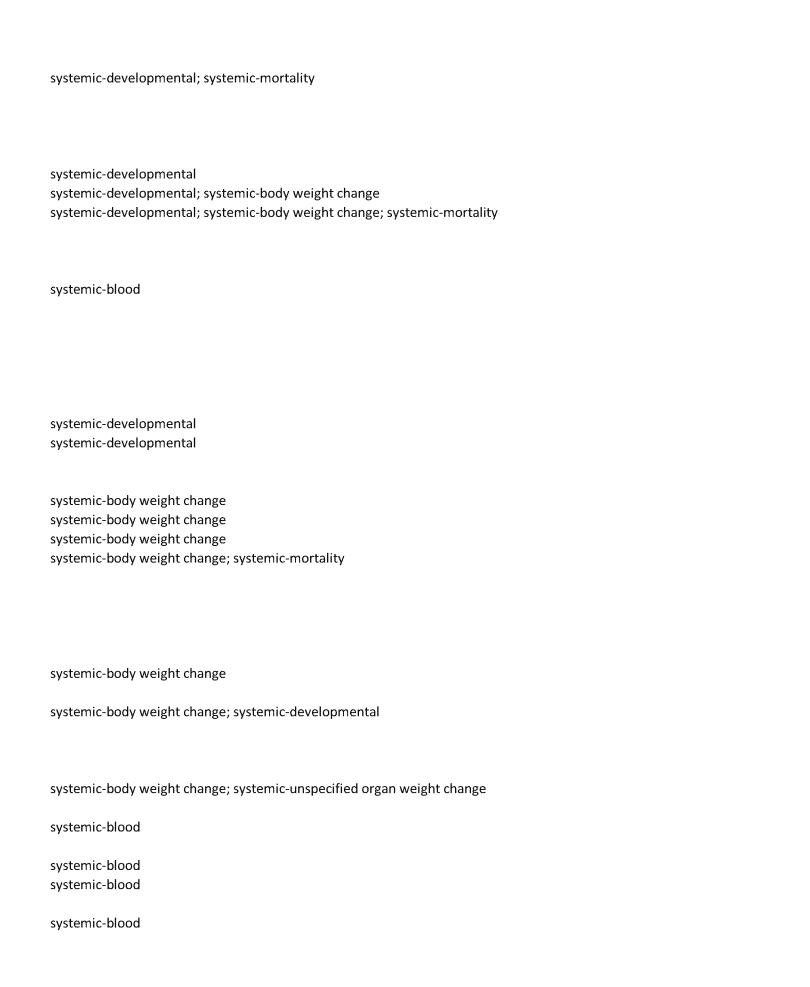




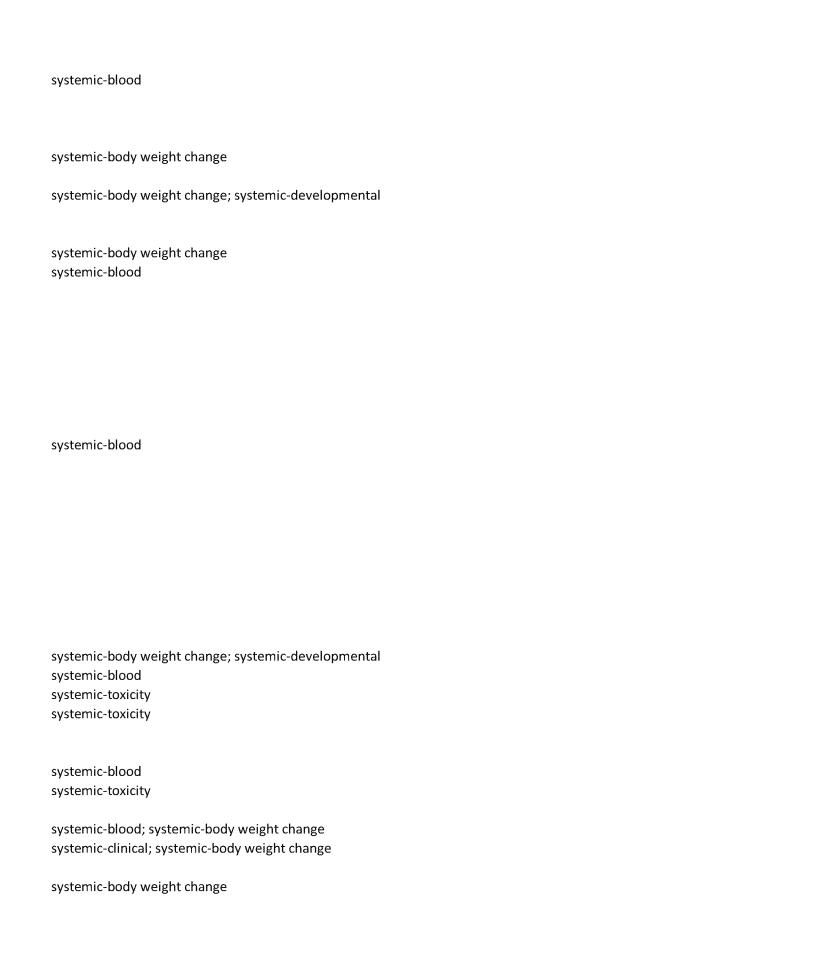


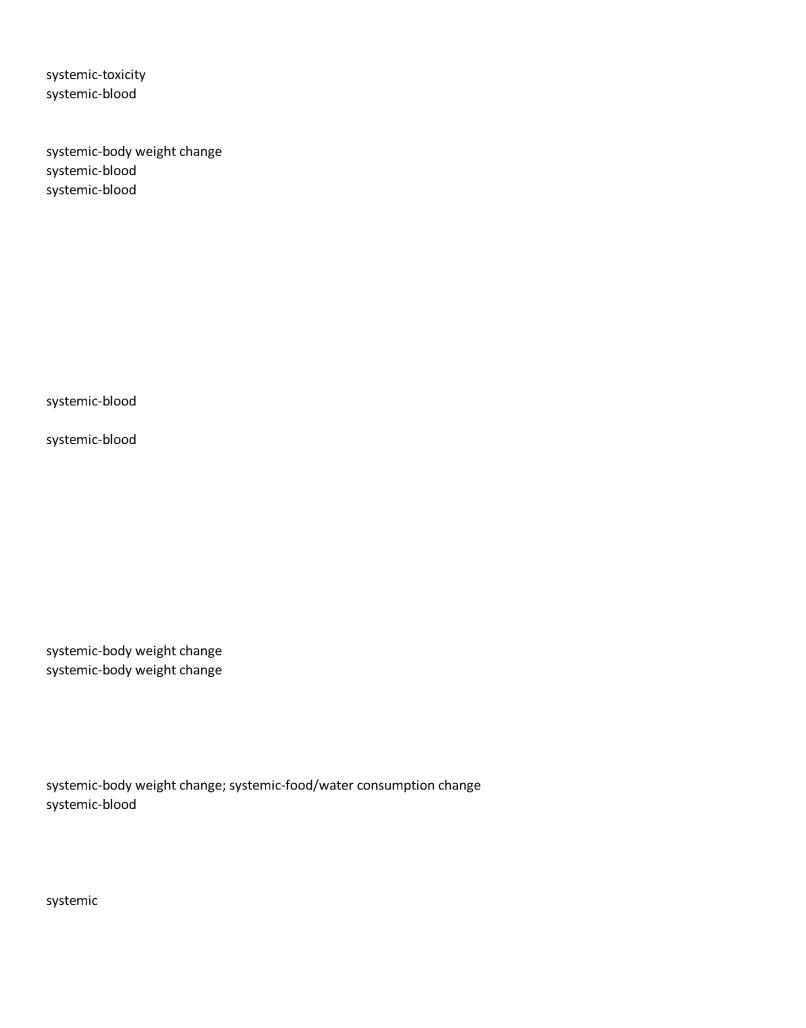


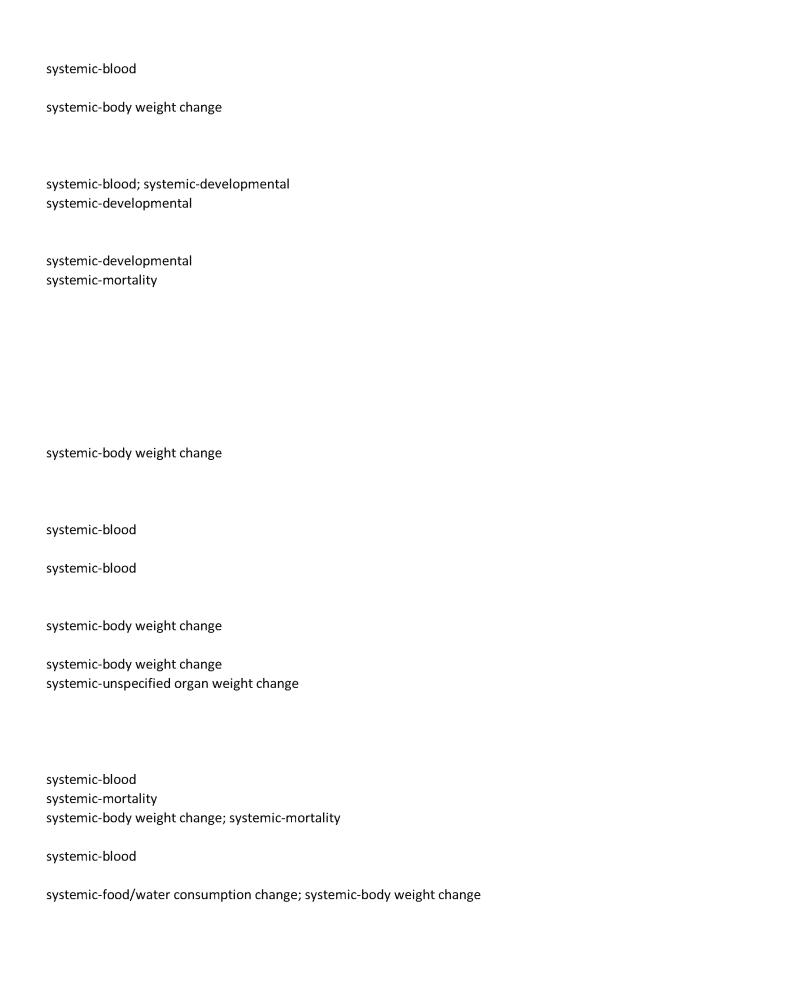












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CBD=common bile duct?

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yes yes irritability?

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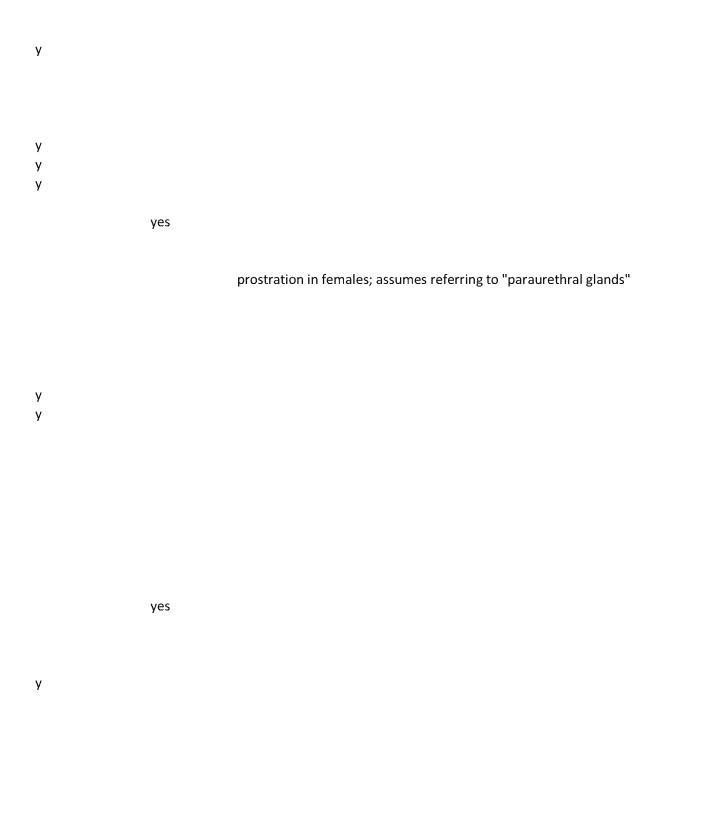
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convulsions: nervous or systemic?

plantar ulcer?

yes yes yes BUN? yes

salivary gland?



	yes yes yes	SAP=serum alkaline phosphatase
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RFC 0.0007	MCM	D
RFD 0.0003		D
	MKD	D
	MKD	D
	MKD	D
RFC 0.0002		D
	MKD	D
	MKD	D
	MCM	D
RFC 0.00003		D
RFD 0.004		D
RFD 0.02	MKD	D

RFD	0.02 MKD	D
RFC	50 MCM	D
RFD	0.01 MKD	D
RFD	0.08 MKD	D
RFD	0.005 MKD	D
RFC	0.02 MCM	D
RFD	0.015 MKD	D
RFD	0.02 MKD	D
RFD	0.2 MKD	D
RFD	0.05 MKD	D
RFD	1.5 MKD	D
RFD	0.003 MKD	D
RFC	0.000008 MCM	D
RFC	0.0001 MCM	D
		_
RFD	0.005 MKD	D
RFD	0.1 MKD	D
RFC	0.4 MCM	D
RFD	0.02 MKD	D
RFC	0.7 MCM	D
RFD	0.04 MKD	D
RFD	0.09 MKD	D
RFC	6 MCM	D
RFD	5 MKD	D
RFD	0.2 MKD	D
RFD RFD	0.005 MKD 0.01 MKD	D D
RFD	0.0075 MKD	D
RFD	0.0073 MKD	D
RFD	0.03 MKD	D
RFD	0.025 MKD	D
RFD		D
	0.007 MKD	U
RFD	0.007 MKD 0.00004 MKD	D

RFC	0.0002	MCM	D
RFD	0.01	MKD	D
RFD	0.02	MKD	D
RFC	0.009	MCM	D
RFC			
RFD	0.009	MKD	D
RFD	0.1	MKD	D
RFD	0.03	MKD	D
RFD	0.004	MKD	D
RFD	0.09	MKD	D
RFC	0.8	MCM	D
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RFD	0.0005	MKD	D
RFD		MKD	D
RFD	0.002		D
RFC	0.2	MCM	D
RFD	0.05	MKD	D
RFD	0.06	MKD	D
RFC			
RFD	0.003	MKD	D
RFD	0.008	MKD	D
RFD	0.01	MKD	D
RFC	0.004	MCM	D
RFD	0.003	MKD	D
RFD	0.03	MKD	D
RFC	0.02	MCM	D
RFD	0.0005	MKD	
RFC	0.0005	MCM	
RFD	0.00005		D
RFC	0.005		D
RFD	8.0	MKD	D
RFD	0.6	MKD	D

RFD	0.02 MKD	D
RFD	0.08 MKD	D
RFD	0.02 MKD	D
RFC	40 MCM	D
RFD	0.08 MKD	D
RFD	0.02 MKD	D
RFD	0.0002 MKD	D
RFD	0.1 MKD	D
NI D	U.T WIND	D
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RFD	0.002 MKD	D
RFC	0.03 MCM	D
RFD	0.02 MKD	D
RFD	0.001 MKD	D
RFD	0.0006 MKD	D
RFD	0.002 MKD	D
RFD	0.0001 MKD	D
	0.002 MKD	
RFD		D
RFD	0.002 MKD	D
RFD	0.001 MKD	D
RFD	0.03 MKD	D
RFD	0.03 MKD	
		D
RFD	0.025 MKD	D
RFD	0.0022 MKD	D
RFD	0.00004 MKD	D
RFD	0.01 MKD	D
RFD	0.002 MKD	D
RFD	0.004 MKD	D
RFD	0.006 MKD	D
RFD	0.02 MKD	D
RFD	0.0003 MKD	D
RFC	0.001 MCM	D
RFC	0.02 MCM	D
RFD	0.005 MKD	D
RFD	0.0005 MKD	D
RFC	0.2 MCM	
		D
RFD	0.9 MKD	D
RFC	10 MCM	D
RFD	0.025 MKD	D
RFD	0.2 MKD	D
RFD	0.00001 MKD	D

RFC	1	MCM	D
RFD	0.1	MKD	D
RFD	2	MKD	D
RFD	0.1	MKD	D
RFC		MCM	D
0	1.0	W.G.W.	
RFD	0.00008	MKD	D
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RFD	2	MKD	D
RFD	0.008		D
RFD	0.00025		D
RFD	0.013		D
RFD		MKD	D
RFD	0.04	MKD	D
RFD	0.06	MKD	D
RFD	0.08	MKD	D
RFD	0.02	MKD	D
RFD	0.06	MKD	D
RFD	0.01	MKD	D
RFD		MKD	D
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RFD	0.002	MKD	D
RFD		MKD	D
NI D	0.2	WIND	U
DED	2	MKD	_
RFD		MKD	D
RFD	0.001		D
RFD	0.003	MKD	D
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RFD	0.0004		D
RFD	0.0004		D
RFD	0.1	MKD	D
RFD	0.00005		D
RFD	0.013	MKD	D
RFD	0.0005	MKD	D
RFD	0.000013	MKD	D
RFD	0.002	MKD	D
RFD	0.0008	MKD	D
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RFD	0.0003	IVINU	D

RFC	0.0002 MCM	D
RFD	0.006 MKD	D
RFC	0.03 MCM	D
RFD	0.0007 MKD	D -
RFD	0.0003 MKD	D
RFD	0.003 MKD	D
	0.00001 MCM	D
RFC	0.7 MCM	D
RFC	0.03 MCM	D
RFD	0.005 MKD	D
RFD	0.033 MKD	D
RFC	0.02 MCM	D
RFC	0.003 MCM	D
RFD	0.02 MKD	D
RFC	0.002 MCM	D
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RFD	0.013 MKD	D
RFD	0.25 MKD	D
RFD	0.04 MKD	D
RFD	0.3 MKD	D
RFD	0.2 MKD	D
RFD	0.015 MKD	D
RFD	0.1 MKD	D
RFD	0.05 MKD	D
RFD	0.002 MKD	D
RFD	0.002 MKD	D
RFD	0.2 MKD	D
RFD	0.02 MKD	D
RFD	0.1 MKD	D
RFD	0.5 MKD	D
RFD	0.005 MKD	D
RFD	0.14 MKD	D
	0.00005 MCM	D
RFD	0.03 MKD	D
RFD	0.0003 MKD	D
RFC	0.0003 MCM	D
	0.0003 MKD	D
	0.00003 MKD	D
RFD	0.06 MKD	D
RFD	0.0001 MKD	D
	0.0001 MKD	D
RFD	0.5 MKD	
NID	U.J IVINU	D

RFD	0.001	MKD	D
RFD	0.025		D
RFD	0.005		D
RFC		MCM	D
	0.02	(VICIVI	_
RFC	0.09	MCM	D
RFC	5	MCM	D
RFD	0.6	MKD	D
RFC	3	MCM	D
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RFD		MKD	D
RFC		MCM	D
RFD	0.00025		D
RFC	3	MCM	D
RFD	0.01	MKD	D
RFD	0.001	MKD	D
RFD	0.0005	MKD	D
RFC	0.0006	MCM	D
			_
RFD	0.0001	MKD	L
RFD	0.0001	MKD	Н
RFD	0.004	MKD	D
RFD	0.05	MKD	D
RFD		MKD	D
RFD		MKD	D
RFD	0.025		D
RFD	0.0002		D
RFD	0.002		D
RFD	0.005	MKD	D
RFD	0.1	MKD	D
RFD	0.002	MKD	D
RFD	0.02	MKD	D
RFC	0.003	MCM	D
RFD	0.1	MKD	D
RFD	0.02	MKD	D
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RFD	1.6	MKD	D
0.50	•	AAVD	_
RFD	0.1	MKD	D
RFC			
RFC	0.009		
RFD	0.002	MKD	D

RFC	0.02 MCM	D
RFD	0.04 MKD	D
RFD	0.0007 MKD	D
RFD	0.003 MKD	D
RFD	0.05 MKD	D
RFD	0.05 MKD	D
RFD	0.005 MKD	D
RFD	0.025 MKD	D
RFD	0.003 MKD	D
RFD	0.013 MKD	D
RFD	0.0045 MKD	D
RFD	0.04 MKD	D
RFD	0.002 MKD	D
RFD	0.0008 MKD	D
RFD	0.003 MKD	D
RFD	0.005 MKD	D
RFD	0.05 MKD	D
RFD	0.25 MKD	D
RFD	0.3 MKD	D
RFD	0.006 MKD	D
RFD	0.00008 MKD	D
RFC	0.0003 MCM	D
RFD	0.02 MKD	D
RFD	0.0003 MKD	D
RFC	0.0003 MCM	D
RFC	0.01 MCM	D
RFD	2 MKD	D
RFD	0.07 MKD	D
RFD	0.01 MKD	D

0.1 MKD

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RFD

RFD	0.05 MKD 0.2 MKD 0.009 MKD 0.015 MKD 0.004 MKD 0.075 MKD 0.013 MKD 0.005 MKD 0.002 MKD	D D D D D D
RFD RFD RFD RFD RFD	0.02 MKD 0.002 MKD 0.02 MKD 0.02 MKD 0.013 MKD	D D D D
RFC	0.008 MCM	D
RFC RFC	2 MCM 0.03 MCM	D D
RFD RFD RFD RFD RFD	0.25 MKD 0.025 MKD 0.03 MKD 0.001 MKD 0.0005 MKD	D D D D
RFD RFD RFD RFD	0.03 MKD 0.004 MKD 0.025 MKD 0.005 MKD 0.005 MKD	D D D D
RFD	0.09 MKD 0.005 MKD 0.1 MKD 0.005 MKD 0.004 MKD 0.04 MKD 0.03 MKD 0.00002 MKD 0.6 MKD	D D D D D D D

RFD RFD RFC	0.0003 MKD 0.2 MKD 1 MCM	D D D
RFD	0.025 MKD	D
RFD	0.07 MKD	D
RFD	0.013 MKD	D
RFD	0.001 MKD	D
RFD	0.0003 MKD	D
RFD	0.03 MKD	D
RFD	0.02 MKD	D
RFD	0.006 MKD	
RFC	0.04 MCM	
RFC	0.04 MCM	
RFD	0.006 MKD	5
RFD	0.03 MKD	D
RFD RFD	0.03 MKD 0.0000001 MKD	D D
RFD	0.0005 MKD	D
RFC	80 MCM	D
RFC	OU WICIVI	D
RFD	0.01 MKD	D
RFD	0.08 MKD	D
RFD	0.005 MKD	D
RFD	0.08 MKD	D
RFC	5 MCM	D
RFC	0.00007 MCM	D
RFD	0.0075 MKD	D
RFD		
1.1.0	0.013 MKD	D
RFD	0.01 MKD	D D
RFD	0.01 MKD	D
RFD RFD RFD	0.01 MKD 0.005 MKD 0.0003 MKD 30 MKD	D D
RFD RFD	0.01 MKD 0.005 MKD 0.0003 MKD	D D

RFD RFC RFC RFC RFC	0.004 MKD 5 MCM 2 MKD	D D D
RFD	0.0005 MKD	
RFC	0.002 MCM	
RFD	0.0005 MKD	
RFC	0.002 MCM	
RFD	0.0005 MKD	_
RFD	0.3 MKD	D
RFD	0.1 MKD	D
RFD	0.008 MKD	D
RFD	0.01 MKD	D
RFC	0.0003 MCM	D
RFD	0.004 MKD	D
RFD	0.005 MKD	D
RFD	0.003 MKD	D
RFC	0.007 MCM	D
RFD	0.0075 MKD	D
RFD	0.03 MKD	D
RFD	0.0005 MKD	D
RFD	0.003 MKD	D
RFD	0.009 MKD	D
RFD	0.001 MKD	D
RFD	0.025 MKD	D
RFC	0.2 MCM	D
RFC	0.003 MCM	D
RFD	0.003 MKD	D
RFC	0.1 MCM	D
RFD	0.0003 MKD	D
RFD	0.00002 MKD	D
RFD	0.2 MKD	D
RFC	0.1 MCM	D
RFD	0.3 MKD	D
RFD	0.05 MKD	D
RFD	0.0003 MKD	D
RFD	0.05 MKD	D
RFD	0.0001 MKD	D

RFD	0.0001 MKD	D
RFD	0.0002 MKD	D

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1000	1	L
100	1	Н
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100	10	M
3000		L
100	1	M
30	1	МН
30	1	M
300		M
100	1	Н
1000	1	M
100	1	Н
100		L
10		M
100		M
1000		M
100		Н
1000		L
3000		L
100		M
1000		Н
1000		L
400		
100		M
30	1	M
10		Н
1000	1	L
3000	1	L
3000	1	L
1000		L
300		M
100		Н
	·	
100	1	M

300	1 M
3	1 M
300	1 M
100	1 H
1000	1 M
100	1 H
300	1 H
300	1 M
100	1 M
100	1 H
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100	1 H
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1000	1 L
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1000	1 M
1	1 M
300	1 LM
10	1 M
1000	1 L
100	1 H
100	10 M
1000	1 L
1000	1 H
66	1 H
300	1 M
1000	1 LM
3000	1 LM
1000	1 LM
3000	1 LM

4000	
1000	1 M
1000	4.84
1000	1 M
100	1 H
1000	1 M
300	1 M
300	1 M
1000	1 M
1000	
1000	1 L
100	1 H
1000	1 L
1000	, ,
10	1 H
10	1 H
100	5 M
100	1 H
1000	1 H
100	1 H
100	1 M
100	1 H
30	1 M
100	1 M
1000	1 M
100	1 M
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100	1 H
100	1 H
1000	1 L
100	1 H
1000	1 M
300	1 M
1000	1 L
300	1 M
300	1 M
100	1 M
100	5 M
3000	1 L
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100	1 MH
300	1 M
1000	1 L
3000	1 L
1000	1 M

300	1	M
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100 100 300 90 300	10 3 1	
1000	1	M
1000 1000 100	1	L M
100 300 100 100 100 100 100 300 100 300		L LM H H H H H L
1000	1	L

1000 1000 1000	1	M L M	
300	1	Μ	
3000 1000 100 3000 1000 100	1 1 1 1	LM L H M L	
100	1	Μ	
100	1	M	
3000 3000 30 100 100	1 1 1		
100 1000 100 300 3000 100 30 100	1 1 1 1 1 1 1	M L H H	
100 30 1000	1 1 1	M M L	
300	1	Μ	

1000 300 100 300	1 1	M M H
1000 100 300	1 1 1	L H M
1000	1	L
10000	1	L
300	1	M
3000	1	L
1000	1	L
1000	1	L
1000	1	L
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1000	1	M
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300	1	M
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100	1	L
100	1	M
300	1	M
1000	1	L
300	1	M
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3000	1	L
1000	1	M

300 1000		L L
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10		МН
10		МН
3000	1	M
100		L
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100		Н
1000		L
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3000		L
1	1	Н
100	1	H
100		H
1000		M
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100	1	Н
100	1	М
100		М
100	1	Н
1000	1	L
3000	1	L
1000	1	М
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100	1	M
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10	1	Н
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1000	1	M
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100	1	Н
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100		М
3000		L
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1	1	Н
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30	1	M
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1000	1	IVI

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100	1	Н
300		М
1000		L
1000	1	L
100		Н
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10000	1	L
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300 300 300 100	1 1 1	L M M
300 300 300 100	1 1 1 1	L M M H
10000 300 300 100 100 300	1 1 1 1 1	L M M H M
10000 300 300 100 100 300 1000	1 1 1 1 1 1	L M M H M MH L
10000 300 300 100 100 300	1 1 1 1 1 1	L M M H M
10000 300 300 100 100 300 1000	1 1 1 1 1 1 1	L M M H M MH L
10000 300 300 100 100 300 1000 100	1 1 1 1 1 1 1	L M M H M M L L
10000 300 300 100 100 300 1000 100 1	1 1 1 1 1 1 1 1	L M M H M H L L M H M H
10000 300 300 100 100 300 1000 100 1	1 1 1 1 1 1 1 1 1	L M M H M H L L M H M H
10000 300 300 100 100 300 1000 100 1	1 1 1 1 1 1 1 1 1 1	L M M H MH L L M H M H M
10000 300 300 100 100 300 1000 100 100 1	1 1 1 1 1 1 1 1 1 1 1	L M M H M MH L L M H M M M M M
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100 3 100 100 1000 1000 3000 3000	1 5 1	M M

10000	1	L
1000	1	М
30	1	М
100	1	Н
100	1	Н
100	1	M
100	1	Н
1000	1	L
3000	1	L
1000	1	M
1000	1	M
1000	1	Μ
1000	1	M
1000	1	Μ
1000	1	Μ
100	1	Μ
10000	1	Μ
1000	1	L
100	1	Μ

100	1	M
100	1	Н
1000	1	L
3000	1	M
10	1	Н
30	1	М
100	1	Н
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1000	1	L
100	1	Н
10	1	L
1000	1	M
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1000 100 1000	1	M M LM
1000 10 100 100 1000 1000 1000 300 3000 3000	1 1 1 1 1 1 1	H H M L M M L
3000		L
100 3000		H L
100	1	Н
100 1000		M M
1000 1000 1000 3000 3000 300 1000 1000	1 1 1 1 1 1 1 1 1	M L H L M M L M M M M H M
500 3000	1 1 1	

3000 1 L 3000 1 L

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H M	H M	T T
M L	M L	T T
М	М	Т
MH LM	MH MH	Т
M	M	Т
H M	H M	T T
IVI	IVI	ı
Н	Н	T
M	L	T
M M	M M	T T
M	M	T
Н	Н	T
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H	M	T
L	M	Т
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M	M	T
M	MH	Т
L	M	T
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Н	Н	Т
M	M	T
H	H	T
Н	М	Т
M	Н	Τ
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Н	M	Т
M	M	Т
L	M	Т
M	M	Т
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M	M	Т
M	M	Т
LM	M	Т
	M M	Т
LM M L	M	Т
LM M	M M	T T T
LM M L H	M M L M	T T T
LM M L H	M M L M H	T T T
LM M L H	M M L M	T T T
LM M L H	M M L M H	T T T
LM M L H	M M L M H	T T T
LM M L H L	M M L M H	T T T T T
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LM M L H L	M M L M H M	T T T T T
LM M L H L L	M M L M H M	T T T T T
LM M L H L L	M M L M H M	T T T T T T B T
LM M L H L L	M M L M H M	T T T T T
LM M L H L L	M M H H H M M M	T T T T T T B T B
LM M L H L L	M M L M H M	T T T T T T B T

M	M	Т
M	M	Т
Н	M	Т
M	M	Т
M	L	Т
M	L	T
Н	Н	Т
L	Н	Т
L	M	T
Н	Н	Т
L	M	Т
Н	NA	Т
Н	NA	Т
M	M	T
Н	Н	Т
Н	Н	Т
Н	M	T
M	Н	T
Н	Н	T
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food water





Low end of BMDL05 range High end of BMDL05 range Maternal toxicity and fetotoxicity Systemic effects Chronic

Chronic Chronic